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WE WEIGH THE WORLD

CAS PRODUCT CATALOG | ENGLISH



CAS

WE WEIGH THE WORLD™

Since its founding in 1983, CAS Corporation consistently aims at becoming a leader in the international weighing industry. By offering a variety of products and dedicated customer service, CAS rapidly developed its global network system. With a manufacturing facility and Headquarter located in South Korea.

CAS has expanded its business territory further to United States, India, Russia, Türkiye and China including active sale performance in over 120 overseas countries. Our global network and cutting-edge technology will ensure total customer satisfaction.

- | | | | |
|------|---|------|--|
| 1983 | Establishment of CAS Co., Ltd. | 2007 | The second CAS Global Business Conference in Korea
Awarded the Global Star prize
Awarded the Techno CEO prize |
| 1989 | Acquired FCC US Official Standards | 2008 | The third CAS Global Business Conference in Korea
Acquired certificate of quality control system of medical instrument
Selected as a electric scale providing company in Chinese standardized market |
| 1990 | Acquired NSC Australian Measuring Verification Standards
Assigned as a National Verification and Correction Facility (177) | 2009 | Fourth CAS Global Business Conference in Korea
Establishment of CAS Zhejiang in China |
| 1991 | Acquired NBS US Measuring Verification Standards
Approved by NTEP & UL, US Safety Standards | 2011 | Acquired as Self-National verification & correction Facility from Korean Agency for Technology and Standard |
| 1992 | Developed strain gage / Establishment of CAS Türkiye
Developed the first label printer in the Korean market | 2012 | Establishment of CAS Japan |
| 1993 | Approved by CSA (Canada)
Establishment of CAS USA | 2013 | Nominated for WC300
Establishment of CAS Chemical
Establishment of CAS E&C |
| 1994 | Acquired the first OIML, EU Standards
Establishment of CAS China / Establishment of CAS Russia | 2014 | Chosen to execute 1 st year project for the World Class300
Designated as No.1 brand in Global Brand Competency Index(GBCI) |
| 1996 | Acquired the first ISO 9001 in the Korean weighing industry | 2015 | Chosen to execute 2 nd year project for the World Class300
Received 2015 Global Excellence Awards |
| 1999 | Establishment of CAS India
Acquired EC Self-Verification Certification
Awarded the Best Certification Company by ISO9000 | 2016 | Designated as No.1 brand in Global Customer Satisfaction Competency Index(GCSI) |
| 2000 | Awarded the Best Certification Company by ISO9000 | 2018 | Designated as No.1 brand in Global Brand Competency Index(GBCI)
Designated as No.1 brand in Global Customer Satisfaction Competency Index(GCSI) |
| 2001 | Awarded the Best Certification Company by ISO9000 for two consecutive years
Awarded the best prize for Precision technology
Acquired Japanese NMJ Standards Certification
Establishment of CAS Vietnam | 2022 | Attending Eurocis 2022 düsseldorf, Germany
Establishment of CAS Mongolia |
| 2002 | Awarded the Best Global Company by Japanese Management Association
Awarded Russia Golden Balance 2002 | 2023 | 40th Year Since the Founding of CAS |
| 2003 | CAS Europe Tour | | |
| 2004 | Establishment of CAS Poland
Establishment of CAS Germany | | |
| 2005 | Granted 30 million dollar export Tower from the government
Establishment of CAS Bangladesh | | |
| 2006 | The first CAS Global Business Conference in Korea | | |



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RETAIL WEIGHING SOLUTION

CAS helps you realize the core value of your business. It serves to complete the process of dealing with consumers in a variety of business environments, and to measure the exact weight and price of products



Label Printing Scale CL8000 Series



Adopting a full-scale opening and closing method, provides ease replacing labels.

Replace parts without removing the seal.
(Except scale parts)

True type font printing

ZEBRA, EPSON protocol compatible

Provide DLL, Demo program



CL8000-PCA



CL8000-B



CL8000-U



CL8000-SU

■ FEATURE



Front open printer



15" Touchscreen TFT LCD

Bitmap TrueType



True type print

■ SPECIFICATION

Model		PCA-Type	B-Type	U-Type
Display	Size	Operator: 15" Customer: 9.7"/15"	Operator: 10.1" Customer: 7"	Operator: 10.1" Customer: 10.1"
	Touch	Capacitive touch screen		
Hard Ware	CPU	Intel J1900 (2.42 GHz)		
	Memory	DDR3L 4GB		
	Storage	SSD 64GB		
Scale	Max. Capacity	6, 15, 30 kg		
	Readability	1/2g, 2/5g, 5/10g		
	Resolution	1/3000		
	Platter Size	368 mm x 288 mm		
Printer (Label, Ticket)	Print Method	Direct thermal		
	Resolution	202 DPI		
	Speed	150 mm/sec		
	Length	Length of label: Max. 200 mm, Width of printing: 56 mm, Width of paper: 65 mm		
	Protocol	EPSON(Ticket), ZEBRA(Label) compatible		
Power		AC 100-240V 50/60Hz 1.5A		
Product Size (WxDxH)		399 x 447 x 631mm	399 x 450 x 211mm	399 x 494 x 590 mm
Product Weight		16.0 kg	15.8 kg	16.0 kg

Label Printing Scale

CL5500N Series



- Blue LCD display provides clear visibility of product name and numbers.
- Prints labels at the fastest speed of 100mm/sec providing 202dpi resolution.
- On large 8MB memory, you can save up to 10,000 product info or 1,000 ingredient info.

OPTION Wireless LAN card (wifi) / Management program (PC)

Model	CL5500N Series		
Max. Capacity	3/6 kg	6/15 kg	15/30 kg
Readability	1/2 g	2/5 g	5/10 g
Resolution	1/3,000 (Dual interval)		
Display Type	Graphic LCD (202 x 32dot) + Numeric LCD (4/5/6/6)		
Printing Speed	100 (mm/sec)		
Printer Resolution	202 dpi		
Label Size	Width : 40 ~ 60, Length : 30 ~ 290 mm		
Operating Temperature	-10 ~ +40 °C		
Power	AC 100 ~ 240V, 50/60Hz		
Platter Size (W) x (D)	B, P, R type: 383 x 273 / D type: 380 x 270 mm		
Product Size (W) x (D) x (H)	B type: 408 x 432 x 173 / P type: 408 x 493 x 542 mm R type: 408 x 493 x 607 / D type: 396 x 464 x 612 mm		
Product Weight	B type: 10.5 / P type: 12 / R type: 11.2 / D type: 12.7 kg		



CL5500N-P



CL5500N-B



CL5500N-R



CL5500N-D

Label Printing Scale

CL5200N Series



- Full Graphic LCD display
- Steady PLU keys
- Cartridge-loading-type label installation
- High-speed thermal printer
- Various interface connections
- Firmware update via USB memory

OPTION > WIFI card

Model	CL5200N		
Max. Capacity	3/6 kg	6/15 kg	15/30 kg
Readability	1/2 g	2/5 g	5/10 g
External Resolution	1/3,000 (dual interval)		
Display Digit	4 / 5 / 6 (Tare / Weight / Unit / Total)		
Display Type	Graphic LCD (208x48)		
Printing Speed	Max. 100 mm/sec		
Printer Resolution	202 dpi		
Label Size	Width: 40~60, Length: 30~290 mm		
Power	AC 100~240V, 50/60 Hz		
Operating Temperature	-10°C ~ +40°C		
Platter Size (W) x (D)	P/B type: 380x 250 mm HS type: 357x 289 mm		
Product Size (W) x (D) x (H)	B type: 410 x 441 x 180 / P type: 410 x 500 x 535.8 HS type: 390 x 355 x 821 mm		
Product Weight	B type: 6.95, P type: 7.65 kg		



CL5200N-P



CL5200N-B



CL5200N-HS

Label Printing Scale

CL5200J



- Memory capacity: 10,000 PLUs & 1,000 ingredients
- Supports free label format design
- Cartridge-loading-type label installation
- 30 fixed format & 10 customized format design
- Various interfaces
- Firmware update via USB memory

OPTION > WIFI card > Platter with back rail

Model	CL5200J	
Max. Capacity	6/15 kg	15/30 kg
Readability	1/2 g	2/5 g
External Resolution	1/3,000 (dual interval)	
Display Digit	4 / 5 / 6 (Tare / Weight / Unit / Total)	
Display Type	7 Segment LCD + Dot Matrix	
Printing Speed	Max. 100 mm/sec	
Printer Resolution	202 dpi	
Label Size	Width : 40 ~ 60, Length : 30 ~ 120	
Power	AC 100 ~ 240V, 50/60Hz	
Operating Temperature	-10 ~ +40°C	
Platter Size (W) x (D)	B, P type: 380 x 250 mm	
Product Size (W) x (D) x (H)	B type: 410 x 441 x 180 P type: 410 x 500 x 535.8 mm	
Product Weight	B type: 6.95 / P type: 7.65 kg	



CL5200J-P



CL5200J-B

Label Printing Scale

CL5000J-C



- General speed thermal printer
- Cartridge-loading-type label installation
- Free format label design
- LAN/WiFi network
- Up to 6,000 PLUs memory

OPTION > Wireless LAN card > Dust protection cover
Stainless steel platter with back rail > Large platter > Fish tray

Model	CL5000J-C		
Max. Capacity	3/6 kg	6/15 kg	15/30 kg
Readability	1/2 g	2/5 g	5/10 g
External Resolution	1/3,000 (dual interval)		
Display Type	LCD display + Dot matrix 80 LCD (60x8 dots)		
Printing Speed	Max. 75mm/sec		
Label Size	Width: 40~60, Length: 30~290 mm		
Power	AC 100 ~ 240 V, 50/60 Hz		
Operating Temperature	-10°C ~ +40°C		
Platter Size (W) x (D)	382 x 246 mm		
Product Size (W) x (D) x (H)	B type: 408 x 432 x 173 / P type: 408 x 493 x 607 mm R type: 408 x 493 x 542 / H type: 420 x 281 x 706 mm S type: 408 x 493 x 703 mm		
Product Weight	B type: 10.5 / R type: 12 / P type: 11.2 / H type: 12.2 / S type: 15.1 kg		



CL5000J-CB



CL5000J-CS

Label Printing Scale

CL3000 Series



- Aluminum body construction
- Durable printer mechanism
- Firmware update via RS-232C or USB port
- Interface: USB port, LAN, RJ11, RS-232C, optional WiFi
- Compatible with CL series

OPTION > WIFI Card

Model	CL3000		
Max. Capacity	3/6 kg	6/15 kg	15/30 kg
Interval	1/2 g	2/5 g	5/10 g
Max. Tare	-2.999 kg	-5.998 kg	-9.995 kg
A/D Conversion Rate	Approx. 8 times/sec.		
Measurement Type	Load Cell		
Platter Size	380 x 250 mm		
Product size (W) x (D) x (H)	B type : 406 x 433 x 164 / P type : 407 x 472 x 545 mm		
Key	B type : 72 PLU key, 35 function key P type : 72 PLU key, 36 function key, 144 PLU		
Display	LCD (Preset tare : 5 digit, Weight : 6 digit, Unit price : 7 digit, Total price : 8 digit, PLU name: 12 digit)		
Printing Speed	Speed 100 mm/sec		
Printing Resolution	202 dpi		
Label Size	Length : 30 mm ~ 80 mm (Maximum 120 mm)		
Barcode Type	UPC, EAN13, I2OF5, CODE128		
Printer Type	Direct thermal print		
Operating Temp.	-10 ~ 40°C (14 ~ 104°F)		
Power	AC 100 ~ 240V 50/60Hz 1.5A		



CL3000-P



CL3000-B

Label Printing Scale

CN1



- 7" vivid color display
- Remote control & print
- Dark gray ABS upper case diecasting aluminum platter
- Remote firmware update via ethernet
- PLU and programmable function keys
- Advertising function (images up to 9)

OPTION > WIFI Card

Model	CN1	
Max. Capacity	6/15 kg	15/30 kg
Interval	2/5 g	5/10 g
Max. Tare	-5.998 kg	-9.995 kg
A/D Conversion Rate	Approx. 8 times/sec.	
Measurement Type	Load Cell	
Platter Size	380 x 250 mm	
Key	72 PLU keys, 36 function keys, 144 PLU	
Display	7" color display (800 x 480)	
Printing Speed	100 mm/sec	
Printing Resolution	202 dpi	
Label Size	Width : 40 mm ~ 60 mm / Length : 30 mm ~ 290 mm	
Barcode Type	UPC, EAN13, I2OF5, CODE128, GS1 databar, QR code	
Printer Type	Direct thermal print	
Operating Temp.	-10 ~ 40 °C (14 ~ 104 °F)	
Power	AC 100 ~ 240V 50/60Hz 1.5A	



Ticket Printing Scale

CT100



- 30 Direct PLUS
- 1000 Indirect
- Rechargeable battery
- Max 6 Floating vender function (with RS-485)
- PC software management (CT-Works)

OPTION > Zigbee > Wireless ethernet interface > Platter back rail

Model	CT100		
Max. Capacity	3/6 kg	6/15 kg	15/30 kg
Readability	1/2 g	2/5 g	5/10 g
Resolution	1/3,000 (Dual interval)		
Display Digit	12 digit (14 segment)		
Display Type	Alpha-numeric LCD + backlight		
Operating Temperature	-10 ~ +40 °C		
Power	AC 230V (50 ~ 60Hz); AC + DC (Option); Pb battery 12V/7A		
Platter Size (W x D)	320 x 240 mm		
Dimensions (W x D x H)	B type : 342 x 455 x 152 / P type : 342 x 455 x 415 mm R type : 342 x 455 x 490 mm		
Product Weight	B type : 6.8 / P type : 8 / R type : 8.5 kg		



▶ CT100-P



◀ CT100-B

Ticket Printing Scale

PR-T

- Direct PLU 30EA, indirect PLU 300
- Rechargeable battery
- Inventory function
- Barcode, image print

Model	PR-T		
Max. Capacity	6 kg	15 kg	32 kg
Readability	1 g	2 g	5 g
Resolution	1/6,000	1/7,500	1/6,400
Display Digit	21 digit (7 segment)		
Display Type	LED		
Operating Temperature	0 ~ +45 °C		
Power	AC 220V, Pb battery 6V/4A		
Platter Size (W x D)	322 x 212 mm		
Dimensions (W x D x H)	329.2 x 389.4 x 448 mm		
Product Weight	4 kg		



Rear Display ◀

Price Computing Scale

AP



- 200 PLUs with 28 direct keys
- Daily total sales reporting function (Only EX type)
- Simple and easy operation
- Adopted dual interval technology
- USB connection available

OPTION > Display on the rear center > RS-232C / USB interface
> Large platter > Dust protection cover > Printer: DEP-50/DLP-50

Model	AP		
Max. Capacity	3/6 kg	6/15 kg	15/30 kg
Readability	1/2 g	2/5 g	5/10 g
External Resolution	1/3,000 (Dual interval)		
Display Digit	7/5/6 (Total price / Weight / Unit price)		
Display Type	VFD		
Operating Temperature	-10 ~ +40°C		
Power	AC 100-220V, 50/60Hz		
Platter Size (W) x (D)	340 x 215 mm		
Product Size (W) x (D) x (H)	435 x 325 x 495 mm		
Product Weight	6.5 kg		



AP-EX



AP-MX



AP-M

Price Computing Scale

PR-II



- High resolution for weighing
- Low profile design
- Up to 7 direct PLUs memory function
- LCD display & backlight (White)

OPTION > RS-232 (Print, command) > Pole type > Mn battery > USB port

Model	PR-II			
Max. Capacity	3 kg	6 kg	15 kg	30 kg
Max. Capacity Dual	1.5/3 kg	3/6 kg	6/15 kg	15/30 kg
Readability	0.1/0.2/0.5 0.5/1 g (Certi.)	0.2/0.5/1 0.5/1 g (Certi.)	0.5/1/2 2/5 g (Certi.)	1/2/5 5/10 g (Certi.)
External Resolution	1/3,000 Dual interval, Certi. (1/3,000-1/30,000)			
Display Digit	6/6/6 Digit & backlight (White)			
Display Type	LCD/LED display & backlight (White)			
Operating Temperature	0 ~ +40°C			
Power	Mn (500 hr), Pb (400hr), Mn&Pb (900hr)			
Platter Size (W) x (D)	330 x 235 mm			
Product Size (W) x (D) x (H)	330 x 380 x 105 mm			
Product Weight	B type: 3.5, P type: 3.8 kg			



User display type



Bench type

Price Computing Scale

ER PLUS



- 25 direct PLUs with 200 indirect PLUs
- Soft touch tact switch with silicon rubber keypad
- Adopted dual interval technology for better accuracy
- Various types of display (LCD, VFD, LED)
- Rechargeable battery operation
- Expanded PLU keys

OPTION > DEP-50/DLP-50 > Large platter/fish tray > Dust protection cover
> Blue backlight (LCD only) > RS-232C interface > Client - view pole display

Model	ER PLUS		
Max. Capacity	3/6 kg	6/15 kg	15/30 kg
Readability	1/2 g	2/5 g	5/10 g
Resolution	1/3,000 (Dual interval)		
Display Digit	5/6/6 (Weight / Unit price / Total price)		
Display Type	LCD / LED / VFD		
Operating Temperature	-10 ~ +40°C		
Power	Rechargeable battery, DC adapter		
Battery Life	200hrs (LCD) / 45Hrs (LED) / 6Hrs (VFD)		
Platter Size (W) x (D)	304 x 220 mm		
Product Size (W) x (D) x (H)	Standard type : 330 x 346 x 107 mm Pole type : 330 x 346 x 419 mm		
Product Weight	Standard type: 4.5, Pole type: 5.8 kg		



Double tray type

The scale is designed with a plastic and stainless steel tray made of heavy-duty and washable material.



ER PLUS (Large tray)



ER PLUS (Fish tray)



ER PLUS-MCBP

Price Computing Scale

ERJR



- 4 direct PLUs memory function
- Adopted dual interval technology for better accuracy
- Three high-legible LCD displays with blue backlight
- Rechargeable battery operation
- EMBO keypad

OPTION > Client-view pole display > Dust protection cover
> Dry battery operation

Model	ER JR		
Max. Capacity	3/6 kg	6/15 kg	15/30 kg
Readability	1/2 g	2/5 g	5/10 g
Resolution	1/3,000 (Dual interval)		
Display Digit	5/6/6 (Weight / Unit price / Total price)		
Display Type	LCD		
Operating Temperature	-10 ~ +40°C		
Power	Rechargeable, 12V DC adapter, Dry battery		
Battery Life	180hrs (Without backlight)		
Platter Size (W) x (D)	290 x 209 mm		
Product Size (W) x (D) x (H)	Standard type : 304 x 324 x 106 mm Pole type : 304 x 324 x 413 mm		
Product Weight	Standard type: 3.5, Pole type: 4.8 kg		



ER JR-CBU



ER JR-CB

Price Computing Scale

JPA/JPS

- Long operating time
 - More than 160 hours with Pb battery
- High-visible rear display
- Robust structure
- Multiple power-source (JPA Only)
 - 220V AC, Pb Battery, 1.5V x 3 D size battery
- 7 PLUs with preset key
- Auto-sleep and energy-saving mode

Model	JPA	JPS
Max. Capacity	15/30 kg	
Readability	5/10 g	
Maximum Tare	Full Tare	
Display Digit	5/5/6 digits (Weight / Unit / Total)	
Operating Temperature	0 ~ +40°C	
Power	AC 220V 4V 4A Pb battery 1.5V x 3 D size battery	AC 220V 4V 4A Pb battery
Platter Size (W) x (D)	330 x 240 mm	300 x 210 mm
Product Weight	22 kg	



► JPA



► JPS

Price Computing Scale

EB



- 24 direct and 200 indirect PLUs
- Dual interval
- Rechargeable battery operated (6V, 4Ah)
- Compact design & Easy-to-use
- RS-232 Interface

OPTION > Back rail (only EB-S) > Printer: DEP-50 (Ticket)/DLP-50 (Label)

> Dust protection cover > 6V, 10Ah Rechargeable battery (only EB-S)

* Approx 500hrs use

Model	EB-S		EB-L		
Max. Capacity	30/60 kg	60/150 kg	6/15 kg	15/30 kg	30/60 kg 60/150 kg
Readability	10/20 g	20/50 g	2/5 g	5/10 g	10/20 g 20/50 g
External Resolution	1/3,000 (Dual interval)				
Display Digit	6/6/6 (Weight / Unit price / Total price)				
Display Type	LCD				
Operating Temperature	-10 ~ +40 °C				
Power	Rechargeable battery, DC adapter				
Battery Life	Approx. 200hrs (Backlight off)				
Platter Size (W) x (D)	350 x 400 mm	280 x 280 mm	400 x 520 mm		
Product Size (W) x (D) x (H)	350 x 470 x 584mm	280 x 350 x 530 mm	425 x 675 x 755 mm		
Product Weight	14.9 kg	15.3 kg	15.6 kg		



► EB-S
Back rail (Option only EB-S)



► EB-L

Price Computing Scale

EBW



- IP67 waterproof/dustproof structure suitable for agricultural and marine product markets and stores
- Excellent display visibility by applying LCD with character height of 24mm
- Fast and accurate weighing performance
- Application to various platforms
- High-capacity lithium-ion battery provides 300 hours of battery life based on single-sided display

OPTION > RS-232C, Bluetooth interface > Rear Display > Adapter cable 5m

Model	EBW			
Max. Capacity	15 kg	30 kg	60 kg	150 kg
Readability	2 g	5 g	10 g	20 g
External Resolution	1/6,000 ~ 7,500			
Display Digit	5/6/7/5 (Weight / Unit price / Total price / Tare)			
Display Type	LCD			
keys	12 PLU keys, 8 function keys, 12 PLU			
Power	Lithium battery (Internal integrated), adapter			
Battery Life	300hrs			
Platter Size (W) x (D)	300 x 400 mm		400 x 520 mm	
Product Weight	4.5 kg			



Scanner Scale

PDS-II



- Two major components: PDI display, scale kit for bioptic type scanner
- Rapid checkout operation at POS environment
- Compact, adaptive, convenient, customer friendly
- Flexible installation
- Various angle indicator
- Scanner not included

OPTION > Scanner > Indicator

Model	PDS-II-15M	PDS-II-15D	PDS-II-15S	PDS-II-15DC
Max. Capacity	15 kg			
Readability	5 g			
Power	AC adapter 100 ~ 240V			
Operating Temperature	-10 ~ +40 °C			
Platter Size (W) x (D)	285x262 mm	254x240 mm	273x230 mm	292x278 mm
Product Size (W) x (D) x (H)	285 x 261.8 x 98mm	245 x 257 x 61.3mm	292 x 351 x 228.3mm	292 x 400 x 218mm
Product Weight	3.6 kg	2.6 kg	2.3 kg	2.6 kg
Available Scanner	MS2400Stratos	Magellan8400s	Magellan8400s	Magellan9300i Magellan9400i



Datalogic



Metrologic

Scanner Scale

PDS

- Stainless-steel body
- Semipermanent structure
- Easy to read LED display
- Auto zero tracking

Model	PDS / PDS-P		PDI/SPS3326
Max. Capacity	15 kg	30 kg	15 kg
Readability	1/3,000 g		1/3,000 g
Display Digit	6 digits		6 digits
Display Type	LED (PDS) / LCD (PDS-P)		LED (PDS) / LCD (PDS-P)
Power	AC adapter 100 ~ 240V		AC adapter 100 ~ 240V
Operating Temperature	-10 ~ +40 °C		-10 ~ +40 °C
Platter Size (W) x (D)	299 x 299 mm		330 x 264 mm
Product Size (W) x (D) x (H)	348 x 348 x 121.2 mm		330 x 264 x 55.3 mm
Product Weight	10 kg		5.87 kg
Available Scanner	Metrologic (Honeywell) - MS7620 Horizon, MS 860 Datalogic - Magellan 2300 HS Motorola - symbol LS7808		-



Product Movie



PDS-P



PDI/SPS3326

ECR Interface Scale

PDN

- Tilt display, low profile
- Easy to read high brightness LED
- USB for power source and communication
- Connected to POS/ECR system

OPTION > Side display on body > Pole display

Model	PDN							
	Single interval			Dual interval				
Max. Capacity	6 kg	12 kg	30 kg	3/6 kg	6/15 kg	15/30 kg	15/32 kg	
Readability	1 g	2 g	5g	1/2 g	2/5 g	5/10 g	5/10 g	
Internal Resolution	1/60,000	1/60,000	1/60,000	1/60,000	1/60,000	1/60,000	1/60,000	
External Resolution	1/6,000	1/6,000	1/6,000	1/3,000	1/3,000	1/3,000	1/3,000	
Max. Tare	-5.999 kg	-11.998 kg	-29.995 kg	-2.999 kg	-5.998 kg	-14.995 kg	-14.995 kg	
Display	94 x 28 mm / 3.7" x 1.1" 6 Digit LED							
Symbols	STABLE, ZERO, TARE, kg, lb, oz							
Keys	ZERO, TARE, FUNCTION							
Functions	Weighing, Unit conversion, ECR protocol, Printer protocol, BLE or USB Serial (Select only one)							
Platter Size (W) x (D)	380 x 280 mm							
Product Size (W) x (D) x (H)	384 x 308.4 x 81.8 mm							
Weight	5.6 kg							
Power	USB 5V or USB adapter (5V, 1000mA/Option)							
Operating Temperature	-10°C ~ +40°C / 14°F ~ 104°F							
Option	DEP-50, DLP-50 printer (RS-232C Only) / BLE module							



ECR Interface Scale

PDII



- Adjustable display head
- Easy-to-read VFD display
- Communication ports: RS-232C or ECR interface
- Low profile

OPTION > Remote pole display: PDR-II (S) > Dual display

> Interface cables to ECR > Black body

Model	PD-II			
Max. Capacity	Single	6 kg	15 kg	30 kg
	Dual	3/6 kg	6/15 kg	15/30 kg
Readability	Single	2 g	5 g	10 g
	Dual	1/2 g	2/5 g	5/10 g
External Resolution	1/3,000 (Single or dual interval)			
Display Digit	6 digits			
Display Type	VFD			
Operating Temperature	-10 ~ +40 °C			
Power	AC 100-220V, 50/60Hz			
Platter Size (W) x (D)	380 x 280 mm			
Product Size (W) x (D) x (H)	380 x 280 x 79 mm			
Product Weight	6.7 kg			



Built-in



Standard



Black Body

POS Platform Scale

PDC



- Interface to most POS system with RS-232C & USB-B type port
- Various product types : Platform type, Single display type, Dual display type
- Low profile design • Wide platform : 370 x 270mm

OPTION > USB cable, RS-232C cable, Bluetooth communication

Model	PDC / PDC-S / PDC-D					
Max. Capacity	Dual Interval	Single Interval	Dual Interval	Single Interval	Dual Interval	Single Interval
	3/6kg	6kg	6/15kg	15kg	15/30kg	30kg
Readability	1/2g	2g	2/5g	5g	5/10g	10g
External Resolution	Dual 1/3000	1/3000	Dual 1/3000	1/3000	Dual 1/3000	1/3000
Max. Tare	-2.999kg	-5.998kg	-5.998kg	-14.995kg	-14.995kg	-29.990kg
Display & keys	PDC : None PDC-S : 57.5 x 24.8 mm 6 digit LCD display / Zero & tare keys PDC-D : 57.5 x 24.8 mm 6 digit LCD display x 2ea / Zero & tare keys					
Operating Temperature	-10 °C ~ +40 °C / 14 °F ~ 104 °F					
Interface	USB B type, RS-232C					
Power	D.C 6V 0.5A adapter , USB 5V					
Platter Size (W) x (D)	370 x 270 mm					
Product Size (W) x (D) x (H)	PDC: 370 x 270 x 68.3mm PDC-S: 370 x 312.3 x 68.3mm PDC-D: 370 x 364 x 68.3mm					
Product Weight	PDC: 5.0kg / PDC-S: 5.1kg / PDC-D : 5.2kg					
Option	USB cable, RS-232C cable, Bluetooth communication					



Platform model (PDC)



Single display model (PDC-S)



Dual display model (PDC-D)

CAS POS SYSTEM

CAS POS JR1



- 15" Ultra wide LCD and backlight
- True-flat PCAP touch
- High speed intel processor
- Fanless and silent heat solution
- Easy swap HDD lack type
- Structure for easy maintenance
- MSR/i-Button for Identification
- 2nd display and customer display

CAS POS SYSTEM

CAS POS JR2



- 15" TFT LCD and backlight
- High speed intel pocessor
- True-flat PCAP touch
- Clean cable management
- Easy swap HDD lack type
- MSR / DALLAS for identification
- 9.7" Second display / 2 line VFD

Model	CAS POS JR1	CAS POS JR2
Processors	Intel® Celeron® J6412 (Apollo lake) Intel® Core i3/i5/i7 (Kaby lake 7th generation)	Intel® Celeron® J6412 (Elkhart lake), intel 12'th core i3/i5/i7
Memory	DDR3L Standard 4GB (up to 8GB) socket 1 x SODIMM DDR4L Standard 4GB (up to 8GB) socket 1 x SODIMM	DDR4 Standard 4GB (up to 16GB) socket 1 x SODIMM
HDD	2.5" SSD 128GB (up to 512GB)	
LCD	15.1" TFT LCD (Wide view) 1024x768 LED backlight, 350cd/m2 (typ.)	15.1" TFT LCD (Ultra wide view) 1024x768 LED backlight
Touch	10 Point capacitive touch, USB interface full-window type	
OS	Windows 10 IoT / Linux	
Rear IO	1x DC-12V 4-pin Power input connector 1x VGA Port with power out (12V) 1x Ethernet port (Gigabit RJ45) / 2x USB (2.0) Serial port: COM1-2 (D-SUB 9pin 5V/12V by BIOS) COM3-4 (RJ45 with flow control, 5V/12V by BIOS) COM5 (RJ11 only RX/TX with 5V, reserved for MSR with USB) 1x Audio jack (Line-out)	1x DC-12V 4-pin Power input connector 1x Ethernet port (Gigabit RJ45) / 4x USB (3.0) Serial port: COM1-3 (D-SUB 9pin RI/5V/12V by BIOS) COM4 (RJ45 with flow control) / * Factory option (CR port) COM5 (RJ45 only RX/TX with 5V, reserved for MSR with USB) 1x Audio jack (Line-out)
Side IO	-	2 x USB (2.0)
Back IO	4x USB (2.0) RJ11 for CR port (Virtual com port)	1 x HDMI Port with Power out(5V/12V), DC OUT 12V
Sound	1 x 0.8W (Mono), *Option 2 x 0.8W (Stereo)	1 x 1W (Mono), *Option 2 x 1W (Stereo)
Option	2nd Display : 9.7" TFT LCD (1024 x 768), RGB interface, optional touchscreen, VFD, 20 columns x 2 lines Identification reader (3 Track-HID & i-Button) by USB	2nd Display : 9.7" TFT LCD (1024 x 768), RGB interface, VFD, 20 columns x 2 lines , USB interface Identification reader (3 Track-HID & i-Button) by USB
Product size (W)x (D) x (H)	364x 340 x 210 mm	355 x 350 x 180 mm
Certification	FCC, CE, KC	FCC, CE, KC, UKCA
Color	White, black	
Power	60W adapter, Input 100-240V/50-60Hz, output DC 12V/SA	

CAS POS SYSTEM

CAS POS-1/2



- Intel® Core™
- Intel® Celeron® quad-core processor
- 15" Bezel-free display with PCAP touch & LED backlight
- Spill and dust resistant
- Newly refined design for CAS POS series
- Stylish and compact body with small footprint
- Multiple I/O interfaces for peripherals
- Flexible Installation on counters and walls
- Fast Installation and easy serviceability



CAS Printer

A8



- 3" Jam-free direct thermal POS printer
- Compact cube design for limited counter space
- Paper top exit and front exit for flexible operation
- Fast printing speed of up to 250mm/s
- High resolution of up to 203dpi
- USB+Serial+Ethernet interface
- Optional bluetooth & WiFi interfaces for mobile devices
- POS friendly compatible with android and iOS



Model	CAS POS-1	CAS POS-2
Processors	Intel® Core™ i5-7200U (3M Cache, 2.50/3.10 GHz(Turbo), 2 Cores) Intel® Core™ i3-7100U (3M Cache, 2.40 GHz, 2 Cores) Intel® Celeron® J1900 (2M Cache, 2.0/2.42 GHz(Burst), 4 Cores), Fanless	
Memory	4GB Standard, DDR3L 1600 MT/s, Socket 1 x SODIMM	4GB Standard, DDR4 2133 MT/s, Socket 1 x SODIMM (Max. 16GB)
Storage	ATA 2 (6Gb/s) 3 inch SSD 64GB, Support AHCI	ATA 3 (6Gb/s) 2.5 inch SSD 64GB, Support AHCI
Operating Systems	Windows 7, Windows 8.1, Windows10 IoT Enterprise, POS Ready 7	Windows 10 IoT Enterprise
Type	15" TFT LCD, LED backlight	
Touchscreen	Projected capacitive touch	
Display	1 x VGA (With power output)	
USB	6 (Rear 2, Back 4, USB3.0 x 2, USB 2.0 x 4) 3 (Reserved for MSR, SCR, i-Button/Touch Controller/Camera), RJ-45	
Serial	6 (COM 1 with 5V/12V power output on 9 pins, BIOS), (COM2-3 RJ-45 , full signal) (COM4 RJ-11, only TX/RX, 12V power output, reserved for CDP) (COM5 reserved for cash drawer port) (COM6 RJ-45, only TX/RX, 5V power output, reserved for MSR)	
LAN	1 x Gigabit ethernet, RJ-45	
Extension Slot	-	Mini PCIe, m-SATA J4105 M.2
Dimensions (W x H x D)	364 x 333 x 216 (mm) 14.3 x 13.1 x 8.5 (in)	
Net Weight	5,300g, 11.6lbs	
2nd Displays	9.7", 12.1", 15" LCD display, 1024 x 768, optional touchscreen	
Customer Display	VFD, 20 Columns x 2 lines	
I/O Expansion	1 x COM5 (RJ-45 8 Pins) (Factory option) 1 x Cash drawer port (RJ-11 6 pins) (Factory option)	1 x COM5 (RJ-45 8 Pins) (Factory option) 1 x Cash drawer port (RJ-11 6 Pins) (Factory option) 1 x Powered USB (24V)
Dallas	iButton key	
Wall Mount Kit	VESA-Compatible, 75 x 75 (mm), 100 x 100 (mm)	

Label

- Hyper-small market, food industry label (low climate label)
- Coating labels : PE, PP, oiled cotton paper, PET, etc.
- Paper finished labels : Glossy paper, thermal paper, etc.



Meat Production, Industrial Barcode Label Printer Label

- Coating labels : PE, PP, oiled cotton, PET, etc.
- Paper finished labels : Glossy paper, thermal paper, etc.



Product Label Sticker

- Coating labels : PE, PP, oiled cotton, PET, etc.
- Paper finished labels : Glossy paper, thermal paper, etc.



Entry Ticket, Ribbon Type POS Receipt Ticket

- Coating labels : PE, PP, oiled cotton, PET, etc.
- Paper finished labels : Glossy paper, thermal paper, etc.





LABORATORY WEIGHING SOLUTION

CAS produces products that are highly skilled and highly qualified. CAS provides raw material mix and quality control solutions such as metering and counting measurement required by laboratories.



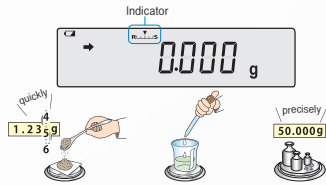
Analytical Balance

CAT

- Touch-key automated calibration
- Expanded piece counting function
- Compare samples to target values or pass/fail criteria clearly
- Power saving function
- Formulation mode
- Password lock
- CAXY : Span calibration is possible by using internal weight (CAXY only)

Adjustable Response Time

Quickly adjust the desired ratio of stability (S) and response (R) for every application, even during measurement, with one-touch operation.



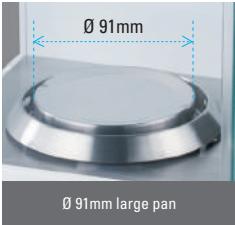
■ FEATURE



Applied UniBloc sensor for stable weighing



2-3sec response time



Ø 91mm large pan



One-touch easy setting

■ SPECIFICATION

Model	CATX324	CATX224	CATX124	CATY324	CATY224	CATY124
Capacity	320g	220g	120g	320g	220g	120g
Number of Verification Scale Interval	320000	220000	120000	320000	220000	120000
Scale Interval (d)	0.0001g					
Range of Use	0.01~320g	0.01~220g	0.01~120g	0.01~320g	0.01~220g	0.01~120g
Response Time	Approx. 3.0 seconds					
Ambient Operating Temperature	10 ~ 30 °C					
Pan Size	Ø 91mm					
Product Size (W) x (D) x (H)	Approx. 210 x 340 x 325 mm					
Product Weight	CATX : Approx. 6.2 kg / CATY : Approx. 6.0 kg					
Display	LCD					
Rated Electric Power Supply	DC 12V, 1A					
I/O Terminal	DATA I/O					
Altitude	Up to 2000m					
Installation Site	Device may only be used indoors					
AC Adapter (primary)	AC 100 ~ 240V, 400mA 50/60 Hz					

Analytical Balance

CAU**CE**

- Display backlight
- Dual-range
- Excellent repeatability and zero-return
- Easy level adjustment
- Pouring mode / formulation mode
- Date output style option

Model	CAUW-D	CAUW	CAUX	CAUY
Max. Capacity	120/42 g 220/82 g	320, 220, 120 g	320, 220, 120 g	220, 120 g
Readability	0.1/0.01mg	0.1mg	0.1mg	0.1mg
Platter Size (W) x (D)	Ø80 mm			



Precision Platform Balance

CBX

- Calibration report
- Check weighing (HI/GO/LO)
- Counting pieces
- Built-in RS-232C interface

OPTION > Printer (EP-80) > Charging battery pack
> Specific gravity measurement kit > RS-232C cable

Model	CBX12KH CBW12KH	CBX22KH CBW22KH	CBX32KH CBW32KH	CBX32KS CBW32KS	CBX52KS CBW52KS
Max. Capacity	12 kg	22 kg	32 kg	32 kg	52 kg
Readability	0.1 g	0.1 g	0.1 g	1 g	1 g
Display Type	LCD				
Operating Temperature	+5~ +40 °C				
Power	AC adapter (12V/1A)				
Platter Size (W) x (D)	345 x 250 mm				
Product Size (W) x (D) x (H)	360 x 355 x 125 mm				
Product Weight	10.5 kg				

* The CBX-K series is not equipped with a built-in calibration weight.
The CBW-K series is equipped with a built-in calibration weight.



Top-Loading Balance

CU



- iM-Works (PC software)
- Weigh-below hook
- Analog bar graph display
- Backlight LCD
- GLP / GMP / ISO calibration record
- PSC Fully-automatic calibration (CUW-H Only)
- Resolution 1/620,000
- Built-in clock
- Check weighing

Model	CUW-H, CUX-H, CUW-HV		CUW-S, CUX-S	
Max.Capacity	220, 420, 620 g	2200, 4200, 6200 g	420, 820 g	4200, 8200 g
Readability	0.001 g	0.01 g	0.01 g	0.1 g
Pan Size (W) x (D)	108 x 105 mm	170 x 180 mm	108 x 105 mm	170 x 180 mm



► Small tray



Top-Loading Balance

CBL

- Economic price for balance
- Counting pieces and unit conversion
- Accurate performance and strong durability
- Analog bar graph display

OPTION > Printer (CP-7020) > Windbreak > RS-232C Interface (IFB-102A)

Model	CBL220H*	CBL320H*	CBL2200H	CBL3200H
Max. Capacity	220 g	320 g	2,200 g	3,200 g
Readability	0.001 g	0.001 g	0.01 g	0.01 g
Pan Size (W) x (D)	100 x 100 mm	100 x 100 mm	164 x 124 mm	164 x 124 mm

* For products with "*" mark, windbreak is a standard



► Windbreak (Small Tray only)



► Small tray

Micro Weighing Scale

MWII-H

- 1/30,000 excellent weighing performance
- Supports various weighing modes
- Equipped with counting function
- Linkage with external ticket and label printer
- Percent mode
- Automatic power OFF, backlight automatic ON/OFF
- Battery status display function
- Weighing value, date, time printing function
- RS-232C interface (PC, label/ticket printer)

Model	MWII-H				
Max.Capacity	200 g	300 g	600 g	2000 g	3000 g
Readability	0.01 g	0.01 g	0.02 g	0.1 g	0.1 g
External Resolution	1/20,000	1/30,000	1/30,000	1/20,000	1/30,000
Display Digit	6 digits (Weight)				
Display Type	LCD with backlight				
Operating Temperature	5 ~ 35°C				
Power	DC 9V/300mA adapter				
Platter Size (W) x (D)	Ø130 mm			162 x 145 mm	
Product Size (W) x (D) x (H)	190 x 271 x 83 mm				
Product Weight	1.23 kg			1.33 kg	



Micro Weighing Scale

MW-IIN

- High accuracy
(External resolution: 1/20,000 ~ 1/60,000)
- Convertible unit weight (g, ct, lb, oz, dwt, mom, GN, tl)
- Counting function
- Percent weighing mode
- Auto power off, back-light auto On/Off
- Battery check function
- Printing weight, date and time
- RS232C interface (PC, printer)

Model	MW-IIN					
Max. Capacity	200 g	300 g	600 g	2000 g	3000 g	6000 g
Readability	0.01 g			0.1 g		
External Resolution	1/20,000 ~ 1/60,000					
Display Digit	6 digits (Weight)					
Display Type	LCD with backlight					
Operating Temperature	5 ~ 35°C					
Power	DC adapter, dry battery (AA Size : 1.5 x 6)					
Platter Size (W) x (D)	Ø130 mm			158 x 144.6 mm		
Product Size (W) x (D) x (H)	190 x 271 x 83.5 mm					
Product Weight	1.03 kg			1.3 kg		



Micro Weighing Scale

MWP

- High accuracy
- Convertible unit weight (8 Units in total : g, ct, etc.)
- Counting function
- Percent weighing mode
- Built-in rechargeable battery (Up to 80hrs)
- RS232C / USB interface (Optional)
- Wind shield included
- Overload alarm function
- Auto power off function
- Auto span calibration & auto zero tracking

Model	MWP-N					MWP-H				
Max. Capacity	150 g	300 g	600 g	1500 g	3000 g	3000 g	300g	1200g	3000g	
Readability	0.005 g	0.01 g	0.02 g	0.05 g	0.1g	0.005g	0.005g	0.01g	0.05g	
External Resolution	1/30,000 ~ 1/60,000									
Display Digit	6 digits (Weight)									
Display Type	LCD with backlight									
Operating Temperature	0 ~ 40°C									
Power	AC adapter 12V, DC/500mA, internal rechargeable lead acid battery									
Platter Size (W) x (D)	Ø116 mm					144 x 124 mm				
Product Size (W) x (D) x (H)	200 x 250 x 80 mm									
Product Weight	1.3 kg					1.4 kg				



► MWP-H



◄ MWP-N

Micro Weighing Scale

XE



- Touchless key
- Various interfaces
- Loadcell protection locker
- Backlight color orange

Model	XE				
Max. Capacity	300 g	600 g	1500 g	3000 g	6000 g
Readability	0.005 g	0.01 g	0.02 g	0.05 g	0.1 g
External Resolution	1/6,000 (Certi.), 1/30,000 ~ 1/75,000				
Weight Units	g, ct, lb, oz, GN, ozt, dwt				
Display Digit	6 and half digits (Weight)				
Display Type	LCD with backlight				
Operating Temperature	5 ~ 40°C				
Power	DC 12V (with adapter)				
Platter Size (W) x (D)	150, 300, 600: Ø128mm 1500, 3000, 6000: 155 X 143mm				
Product Size (W) x (D) x (H)	180 x 272 x 74 mm				
Product Weight	1.39 kg				



Product Movie

Micro Weighing Scale

XE PLUS



- Excellent weighing performance with 1/30,000 resolution
- Direct sales to the public with same e, d
- Satisfaction with OIML R76:2006 standard
- Various functions
(Load cell protection device, kensington lock, wind shield)
- Various interfaces
(Auxiliary display, IM-WORKS, various printer connectable)
- Rechargeable battery
- Compact design
- IR sensor (touchless key)

Model	XE PLUS				
Max. Capacity	300 g	600 g	1500 g	3000 g	6000 g
Readability	0.01 g	0.02 g	0.05 g	0.1 g	0.2 g
External Resolution	1/30,000 (Certi.)				
Weight Units	g, ct, lb, oz, GN, ozt, dwt				
Display Digit	6 and half digits (Weight)				
Display Type	LCD with backlight				
Operating Temperature	5 ~ 40°C				
Power	DC 12V (With adapter)				
Platter Size (W) x (D)	300, 600: Ø128mm 1500, 3000, 6000: 155 X 143mm				
Product Size (W) x (D) x (H)	180 x 272 x 74 mm				
Product Weight	1.39 kg				



Remote Display

CD-300

- Distance adjustable & tiltable display
- Compatible with any products with CAS 22 byte protocol
- Clear LCD

Model	CD-300
Power	via RS232, 5V adapter
External Display	LCD (With backlight), units, 7digit, mg
Protocol	CAS 22 byte protocol
Communication Cable	length: 1.2m (With products)
Communication Methods	RS-232C
Product Size (W) x (D) x (H)	141 x 66x 90 mm
Product Weight	0.25 kg





Individual Weights

- Sheet weight
- Marked sheet weight
- Cylindrical weight with knob
- Marked cylindrical weight with knob

Nominal value	Order NO.		
	E2	F1	F2
1mg	CE21111	CF11111	CF21111
2mg	CE21112	CF11112	CF21112
5mg	CE21113	CF11113	CF21113
10mg	CE21114	CF11114	CF21114
20mg	CE21115	CF11115	CF21115
50mg	CE21116	CF11116	CF21116
100mg	CE21117	CF11117	CF21117
200mg	CE21118	CF11118	CF21118
500mg	CE21119	CF11119	CF21119
1g	CE21120	CF11120	CF21120
2g	CE21121	CF11121	CF21121
5g	CE21122	CF11122	CF21122
10g	CE21123	CF11123	CF21123
20g	CE21124	CF11124	CF21124
50g	CE21125	CF11125	CF21125
100g	CE21126	CF11126	CF21126
200g	CE21127	CF11127	CF21127
500g	CE21128	CF11128	CF21128
1kg	CE21129	CF11129	CF21129
2kg	CE21130	CF11130	CF21130
5kg	CE21131	CF11131	CF21131
10kg	CE21132	CF11132	CF21132
20kg	CE21133	CF11133	CF21133

Nominal value	Shape
1mg	Sheet weight
2mg	Marked sheet weight
5mg	Sheet weight
10mg	Sheet weight
20mg	Marked sheet weight
50mg	Sheet weight
100mg	Sheet weight
200mg	Marked sheet weight
500mg	Sheet weight
1g	Cylindrical weight with knob
2g	Marked cylindrical weight with knob
5g	Cylindrical weight with knob
10g	Cylindrical weight with knob
20g	Marked cylindrical weight with knob
50g	Cylindrical weight with knob
100g	Cylindrical weight with knob
200g	Marked cylindrical weight with knob
500g	Cylindrical weight with knob
1kg	Cylindrical weight with knob
2kg	Marked cylindrical weight with knob
5kg	Cylindrical weight with knob
10kg	Cylindrical weight with knob
20kg	Cylindrical weight with knob



Weight Sets F1/F2/E2

Model	CME2 -100G	CME2 -200G	CME2 -1K	CME2 -2K	CME2 -5K	CME2 -10K	CME2 -20K
Nominal Value	1mg ~100g	1mg ~200g	1mg ~1kg	1mg ~2kg	1mg ~5kg	10kg	20kg
1mg	☆	☆	☆	☆	☆		
2mg	☆☆	☆☆	☆☆	☆☆	☆☆		
5mg	☆	☆	☆	☆	☆		
10mg	☆	☆	☆	☆	☆		
20mg	☆☆	☆☆	☆☆	☆☆	☆☆		
50mg	☆	☆	☆	☆	☆		
100mg	☆	☆	☆	☆	☆		
200mg	☆☆	☆☆	☆☆	☆☆	☆☆		
500mg	☆	☆	☆	☆	☆		
1g	✚	✚	✚	✚	✚		
2g	✚✚	✚✚	✚✚	✚✚	✚✚		
5g	✚	✚	✚	✚	✚		
10g	✚	✚	✚	✚	✚		
20g	✚✚	✚✚	✚✚	✚✚	✚✚		
50g	✚	✚	✚	✚	✚		
100g	✚	✚	✚	✚	✚		
200g		✚✚	✚✚	✚✚	✚✚		
500g			✚	✚	✚		
1kg			✚	✚	✚		
2kg				✚✚	✚✚		
5kg					✚		
10kg						✚	
20kg							✚
Internal	21 pcs	23 pcs	25 pcs	27 pcs	28 pcs	1 pcs	1 pcs

Model	CMF1 -100G	CMF1 -200G	CMF1 -1K	CMF1 -2K	CMF1 -5K	CMF1 -10K	CMF1 -20K
Nominal Value	1mg ~100g	1mg ~200g	1mg ~1kg	1mg ~2kg	1mg ~5kg	10kg	20kg
1mg	☆	☆	☆	☆	☆		
2mg	☆☆	☆☆	☆☆	☆☆	☆☆		
5mg	☆	☆	☆	☆	☆		
10mg	☆	☆	☆	☆	☆		
20mg	☆☆	☆☆	☆☆	☆☆	☆☆		
50mg	☆	☆	☆	☆	☆		
100mg	☆	☆	☆	☆	☆		
200mg	☆☆	☆☆	☆☆	☆☆	☆☆		
500mg	☆	☆	☆	☆	☆		
1g	✚	✚	✚	✚	✚		
2g	✚✚	✚✚	✚✚	✚✚	✚✚		
5g	✚	✚	✚	✚	✚		
10g	✚	✚	✚	✚	✚		
20g	✚✚	✚✚	✚✚	✚✚	✚✚		
50g	✚	✚	✚	✚	✚		
100g	✚	✚	✚	✚	✚		
200g		✚✚	✚✚	✚✚	✚✚		
500g			✚	✚	✚		
1kg			✚	✚	✚		
2kg				✚✚	✚✚		
5kg					✚		
10kg						✚	
20kg							✚
Internal	21 pcs	23 pcs	25 pcs	27 pcs	28 pcs	1 pcs	1 pcs

Model	CMF2 -100G	CMF2 -200G	CMF2 -1K	CMF2 -2K	CMF2 -5K	CMF2 -10K	CMF2 -20K
Nominal Value	1mg ~100g	1mg ~200g	1mg ~1kg	1mg ~2kg	1mg ~5kg	10kg	20kg
1mg	☆	☆	☆	☆	☆		
2mg	☆☆	☆☆	☆☆	☆☆	☆☆		
5mg	☆	☆	☆	☆	☆		
10mg	☆	☆	☆	☆	☆		
20mg	☆☆	☆☆	☆☆	☆☆	☆☆		
50mg	☆	☆	☆	☆	☆		
100mg	☆	☆	☆	☆	☆		
200mg	☆☆	☆☆	☆☆	☆☆	☆☆		
500mg	☆	☆	☆	☆	☆		
1g	✚	✚	✚	✚	✚		
2g	✚✚	✚✚	✚✚	✚✚	✚✚		
5g	✚	✚	✚	✚	✚		
10g	✚	✚	✚	✚	✚		
20g	✚✚	✚✚	✚✚	✚✚	✚✚		
50g	✚	✚	✚	✚	✚		
100g	✚	✚	✚	✚	✚		
200g		✚✚	✚✚	✚✚	✚✚		
500g			✚	✚	✚		
1kg			✚	✚	✚		
2kg				✚✚	✚✚		
5kg					✚		
10kg						✚	
20kg							✚
Internal	21 pcs	23 pcs	25 pcs	27 pcs	28 pcs	1 pcs	1 pcs

INDUSTRIAL WEIGHING SOLUTION

The ultimate goal of CAS is to realize the core values of the industrial system: efficiency and stability. We provide the systems needed for all industries from various manufacturing processes, line processes, packaging processes and logistics processes.



Damp-proof Scale SWII-W



Suitable for damp environment

Fast operation and high accuracy

Auto power and standby mode
for economic usage

Large bright display

Convenient to carry

Stainless steel tray



■ FEATURE



Suitable for
damp environment



Fast operation and
high accuracy



Large bright display



Convenient to carry

■ SPECIFICATION

Model	SWII-CW (LCD)				SWII-EW (LED)			
Capacity	1.5/3 kg	3/6 kg	6/15 kg	15/30 kg	1.5/3 kg	3/6 kg	6/15 kg	15/30 kg
Readability	0.5/1g	1/2 g	2/5 g	5/10 g	0.5/1 g	1/2 g	2/5 g	5/10 g
Resolution	1/3,000 (Dual Interval)							
Display	6 digit LCD (Height : 35 mm, with backlight)				6 digit LED (Height : 20 mm)			
Key	4ea (Power, Zero, Tare, Hold)							
Function	Hold, counting, weighing comparison (HI/OK/LOW), auto power off, standby mode							
Power	Dry battery (D size 1.5V x 4ea) 9VDC/1A adapter 6V 3.3A rechargeable battery (Pb)							
Battery Operating Time (for Single display)	Manganese dry battery : Approx. 400hours Alkaline dry battery : Approx. 800hours Rechargeable battery : Approx. 80hours							
Operation Temperature	-10 ~ 40 °C							
Ingress Protection	Passed IP68 grade lab tests							
Platter Size	237 (W) x 192 (D) (SUS) mm							
Product Size	256 (W) x 299 (D) x 117 (H) mm							
Product Weight	Approx. 2.6 kg							
Options	[For All] Rear display, large tray (Only for capacities of 15 & 30kg), Water-proof power connector [For SWII-CW(LCD)] adapter 9VDC/1A							

Basic Scale

SWII



- High resolution for weighing
- Rechargeable battery (Max. 1,000hours : Mn & Pb)
- Low profile design
- USB port for COMM. & power
- Easy grab body
- Customized external color

OPTION > RS-232 (Print, command) > Rear display
> Rechargeable battery and adapter > USB Port > SUS tray

Model	SW-II			
Max.capacity	3 kg	6 kg	15 kg	30 kg
Readability	0.1/0.2/0.5 g	0.2/0.5/1 g	0.5/1/2 g	1/2/5 g
Readability (Certi.)	0.5/1 g	1/2 g	2/5 g	5/10 g
Resolution	1/3,000 Dual Interval, Certi. (1/3,000~1/30,000)			
Display	6 digits LCD (115 x 39.5mm) & backlight (White)			
Symbols	STABLE, ZERO, TARE, g, kg, lb, oz, PCS, Low battery HI / OK / LO & PCS			
Functions	Hold, Unit conversion, counting Sample range: 10 ~ 100, 200, 300, 400, 500 Weight comparison function: HI, OK, Low Sleep mode function			
Operation Time	Approx. D size battery: 500hr or Pb battery: 450hr (Backlight off) Working hours on simultaneous use of Mn & Pb battery: 1,000hr			
Power	Mn (500hr), Pb (500hr), Mn+Pb (1000hr)			
Platter Size	225 (W) x 190(D) mm			
Product Size	245 (W) x 280 (D) x 110 (H) mm			



LED ◀



▶ LCD

Basic Scale

PRII-D

- High resolution for weighing (Dual 1/3,000~Single 1/30,000)
- Simple & Easy operation
- Low profile design
- Easy to Install
- High-visibility display

OPTION > 1.5V D size dry battery x 3ea > RS-232C > USB type B

Model	PRII-D		
Max. Capacity	6 kg	15 kg	30 kg
Readability	0.2/0.5/1/2 g	0.5/1/2/5 g	1/2/5/10 g
Resolution	1/3000 ~ 1/30000 g		
Display	7 Segment LED (6 digit) / 4.5 " x 1.55 " LCD (6 digit)		
Symbols	Stable, Zero, Tare, g, kg, Low battery, HI / OK / LO & PCS, Power		
Keys	ZERO / UNIT, TARE / HOLD, MODE, FUNCTION		
Functions	General weighing, counting function : Counting sample range 10, 20, 50, 100, 200, 500 / Weight comparison function : hi, ok, low, Backlight ON/OFF control function, hold, unit conversion		
Power	Pb 4 V/4 A Rechargeable battery, 6 VDC adapter, USB type B(Optional, not for battery charging), 1.5V D size dry battery x 3ea(Optional)		
Platter Size	330 (W) x 235 (D) mm		
Product Size	341(W) x 382(D) x 102(H) mm		



LED ◀



▶ LCD

Basic Scale

AD/AD-H



- Easy operation
- Soft touch tact switch

OPTION > Printer: DEP-50 (Ticket)/DLP-50 (Label)
 > RS-232C interface > USB communication (Factory option)
 > Baby tray > Large platter

Model	AD				AD-H		
Max. Capacity	2.5 kg	5 kg	10 kg	25 kg	5 kg	10 kg	20 kg
Readability	0.5 g	1 g	2 g	5 g	0.5 g	1 g	2 g
Resolution	1/5,000				1/10,000		
Display Digit	6 digits						
Display Type	VFD						
Option	USB port (Factory option)						
Power	AC						
Platter Size (W) x (D)	340 x 215 mm						
Product Size (W) x (D) x (H)	350 x 325 x 105 mm						
Product Weight	4.7 kg						



► Baby Tray



Basic Scale

ED/ED-H



- Easy to operate
- Soft large tact switch
- Rechargeable battery operation
- Accumulation mode (Σ)
- Counting, percentage weighing function
- Double platters (Plastic + stainless steel)
- 12V DC adapter

OPTION > Printer: DEP-50 (Ticket)/DLP-50 (Label)

Model	ED				ED-H			
Max. Capacity	1.5/3 kg	3/6 kg	6/15 kg	15/30 kg	3 kg	6 kg	15 kg	30 kg
Readability	0.5/1 g	1/2 g	2/5 g	5/10 g	0.1 g	0.2 g	0.5 g	1 g
Resolution	1/3,000 (Dual interval)				1/30,000			
Display Digit	6 digits							
Display Type	LCD (Blue backlight)							
Option	Rechargeable battery or DC adapter							
Power	200hrs (Backlight off)							
Platter Size (W) x (D)	306 x 222 mm							
Product Size (W) x (D) x (H)	330 x 346 x 107 mm							
Product Weight	4.5 kg							



Basic Scale

PW-II



- Stainless steel body case
- Easy operation
- Various weight units are convertible(g, kg, lb, oz)
- AC adapter (9V / 300mA)

Model	PW-II		
Max. Capacity	1/2 kg	2.5/5 kg	4/10 kg
Readability	0.5/1 g	1/2 g	2/5 g
Resolution	1/2,000-1/2,500 (Dual interval)		
Display Digit	5 digits		
Display Type	LCD		
Operating Temperature	-10 ~ +40 °C		
Power	Dry battery (AA x 6ea) or 9V DC adapter		
Battery Life	Alkaline : 250 hrs, Mn: 60 hrs		
Platter Size (W) x (D)	222 x 151 mm		
Product Size (W) x (D) x (H)	239 x 227 x 66 mm		
Product Weight	1.7 kg		



Digital Kitchen Scale

CKW-11WT

- Ultra-precise measurement with 0.1g resolution
- Hygienic and durable stainless steel tray
- Deduction from the gross weight of a substance and its container
- Efficient use with automatic power off function

Model	CKW-11WT
Max. Capacity	1 kg
Readability	0.1 g
Power	4.5V DC
Platter Size (W) x (D)	168 x 155 mm
Product Size (W) x (D) x (H)	219 x 190 x 52 mm
Product Weight	700 g



Waterproof Scale

FW500



- IP69k (Waterproof)
- Large stainless steel tray
- Fast and accurate weighing operation
- Bright and large display & rear display
- Auto power off

OPTION > AC Adapter (Only FW500-C) > Rear display

Model	FW500-C			FW500-E		
Max.capacity	3/6 kg	6/15 kg	15/30 kg	3/6 kg	6/15 kg	15/30 kg
Readability	1/2 g	2/5 g	5/10 g	1/2 g	2/5 g	5/10 g
Resolution	1/3,000 (Dual Interval)					
Display Type	LCD			LED		
Display	5 digit (height 35mm)			6 digit (height 19mm)		
Status	Stable, Zero, Tare, Unit(kg), BAT					
Key	Zero, Tare, Hold, Power					
Function	Hold, Auto power off					
Power	Dry battery (D size 1.5V x 4ea) 12V/1.5A adapter			6V Rechargeable battery 12V/1.5A adapter		
Battery Life	Manganese dry battery : About 1,200 hours Alkaline dry battery: About 2,500 hours *for single display			Rechargeable battery : About 100 hours *for single display		
Operation Temperature	-10 ~ +40 ℃					
Platter Size	247 (W) x 212 (D) mm					
Product Size	266 (W) x 303 (D) x 109 (H) mm					
Product Weight	3.0 kg			3.3 kg		



LED ◀



▶ LCD



Product Movie

Counting Scale

ECN



- 1/15,000 resolution
- Battery life 80 hours (recharging 8 hours)
- 24 direct and 200 indirect PLUs
- Dual interval
- Rechargeable battery operated (6V, 4Ah)
- Compact design & Easy-to-use
- RS-232 Interface

Model	ECN			
Max. Capacity	3 kg	6 kg	15 kg	30 kg
Readability	0.2 g	0.5 g	1 g	2 g
External Resolution	1/600,000			
Display Digit	6/6/6 (Weight / Unit price / Total price)			
Display Type	LCD			
Operating Temperature	0 ~ +40 °C			
Power	AC adapter DC 9V/1000mA			
Battery Life	80hrs			
Platter Size (W) x (D)	306 x 222 mm			
Product Size (W) x (D) x (H)	330 x 346 x 107 mm			
Product Weight	4.5 kg			



Counting Scale

EC

- RS-232C interface (connection with PC or printers)
- Memory function (weight 200 units)
- Weight comparison function
- Double tray (Plastic + stainless steel tray)

OPTION > Printer : DEP-50 (ticket)/DLP-50 (label)

Model	EC	
Max. Capacity	3 kg	6 kg
Readability	0.1 g	0.2 g
Resolution	1/30,000	
Display Digit	6/6/6 (Weight / Unit weight / Count)	
Display Type	LCD (Blue backlight)	
Operating Temperature	0 ~ +40 °C	
Power	Rechargeable battery (6V, 5Ah) , DC adapter (DC 12V/1A)	
Platter Size (W) x (D)	306 x 222 mm	
Product Size (W) x (D) x (H)	330 x 346 x 107 mm	
Product Weight	4.5 kg	



Counting Scale

ECII Series

- 1/600,000 high internal resolution for accurate counting
- Weight/count comparison function with alarm beeps
- Accumulation mode (Σ)
- Remote platform (up to 10tons)
- Various external devices : Ticket/Label printer, Aux.display, comparator light, remote platform
- 100ea memory (Unit weight, tare, item name, address, set HI/LO)

OPTION > Remote platform (up to 10tons) > Comparator light
 > Aux. display > Printer: DEP-50 (Ticket) > DLP-50 (Label)

Model	EC-II	
Max. Capacity	15 kg	30 kg
Readability	0.5 g	1 g
Resolution	1/30,000 (non approval)	
Display Digit	6/6/6 (Weight / Unit weight / Count)	
Display Type	LCD (Blue backlight)	
Operating Temperature	0 ~ +40 °C	
Power	Rechargeable battery (6V, 5Ah) , DC adapter (DC 12V/1A)	
Platter Size (W) x (D)	306 x 222 mm	
Product Size (W) x (D) x (H)	330 x 346 x 107 mm	
Product Weight	4.5 kg	



Counting Scale

PR-C

- Rechargeable battery
- Check weighing function
- High weighing performance

OPTION > Printer : DEP-50 (ticket)/DLP-50 (label)

Model	PR-C			
Max. Capacity	30 kg	75 kg	150 kg	250 kg
Readability	2 g	5 g	10 g	20 g
Resolution	1/15,000		1/12,500	
Display Digit	6/6/6 (Weight / Unit weight / Count)			
Display Type	LCD (Blue backlight)			
Operating Temperature	0 ~ +40 °C			
Power	Rechargeable battery (6V, 5Ah) , DC adapter (DC 12V/1A)			
Platter Size (W) x (D)	400 x 500 mm			
Product Size (W) x (D) x (H)	500 x 720 x 760 mm			
Product Weight	3.5 kg			



Counting Bench Scale

CS

- Auto span adjustment
- Auto zero tracking
- Large stainless-steel platter

OPTION > RS-232C Interface

Model	CS			
Max. Capacity	2.5 kg	5 kg	10 kg	250 kg
Readability	2 g	5 g	10 g	20 g
Resolution	1/5,000			
Display Digit	5/5/5 (Weight / Unit weight / Count)			
Display Type	VFD			
Operating Temperature	-10 ~ +40 °C			
Power	AC 100-220V, 50/60Hz			
Platter Size (W) x (D)	340 x 215 mm			
Product Size (W) x (D) x (H)	350 x 325 x 105 mm			
Product Weight	5.3 kg			



Counting Bench Scale

ECB

- 1/600,000 High internal resolution for accurate counting
- Weight / Count comparison function with alarm beeps
- Accumulation Mode (Σ)
- Pivot / Tilt indicator
- All embossing keys (total 48 ea)
- 124 ea memory (Direct 24ea, indirect 100 ea)

OPTION > Printer: DEP-50 (ticket)/DLP-50 (label)

Model	ECB			
Max. Capacity	30 kg	75 kg	150 kg	250 kg
Readability	2 g	5 g	10 g	20 g
Resolution	1/15,000			1/12,500
Display Digit	6/6/6 (Weight/Unit weight/Count)			
Display Type	LCD (Blue backlight)			
Operating Temperature	0 ~ +40 °C			
Power	Rechargeable battery (6V, 5Ah), DC adapter DC 12V/850mA			
Platter Size (W) x (D)	400 x 500 mm			
Product Size (W) x (D) x (H)	500 x 720 x 760 mm			
Product Weight	16.5 kg			



Counting Bench Scale

AC



- Counting function
- Pivoting indicator head
- Die-casting platform
- Auto-span adjustment
- Easy-to-read VFD display
- Stainless-steel weighing platform

OPTION > Printer: DEP-50 (ticket)/DLP-50 (label)

Model	AC		
Max. Capacity	25 kg	50 kg	100 kg
Readability	5 g	10 g	20 g
Resolution	1/15,000		
Display Digit	5/5/5 (Weight/Unit weight/Count)		
Display Type	VFD		
Operating Temperature	-5 ~ +35 °C		
Power	AC 100~220V, 50/60Hz		
Platter Size (W) x (D)	390 x 510 mm		
Product Size (W) x (D) x (H)	420 x 610 x 852 mm		
Product Weight	19 kg		



Portable Bench Scale

PBII



180° reversible display

Light-weight and easy to carry

LCD backlight for night / dark area

Operation time

- Rechargeable type: Over 300hours
- Non-rechargeable type: Over 500hours

Hold function, auto power off function

Small and light design

OPTION > Connect with smartphones by > Bluetooth communication



Customized (Logo & cover design)

* PB-Link is a control application for PB/PBII (Bluetooth version).

android (Only Available on Android)



FEATURE



Easy to carry



Large LCD with backlight



180° Reversible display



Bluetooth communication (Option)

SPECIFICATION

Model	PBII		
Capacity	15/30kg	30/60kg	60/150kg
Readability	5/10g	10/20g	20/50g
External Resolution	1/3,000	1/3,000	1/3,000
Max Tare	-14.995kg	-29.99kg	-59.98kg
Display	115 x 35 mm / 4.5" x 1.55" 6 digit LCD		
Keys	ZERO, TARE, HOLD, POWER		
Function	Weighing hold function Backlight ON/OFF control function Print out function		
Platter Size	350 x 350 (mm)		
Power	Type 1. Dry battery (1.5V x 4 Unit, C Size) Type 2. Pb battery (4V, 1.3Ah) + 6V adapter Type 3. Li-ion battery (3.7V, 5200mAh) + 6V adapter		
Operation Time	300hours (Li-ion battery) 500hours (Alkaline at 20°C/68°F) 80hours (Pb battery) 180hours (Dry battery)		
Operation Temperature	-10°C ~ +40°C / 14°F ~ 104°F		
Interfaces	Standard: RS-232C or USB / Option: Bluetooth		

Portable Bench Scale

PB



- Easy-to-carry portable type
- Dividing LCD display and body white backlight
- Battery operating up to 300 hours of continuous use
- Auto power-off function
- Auto zero tracking
- Rechargeable battery
- RS-232C interface

Model	PB			
Max. Capacity	15/30 kg	30/60 kg	60/150 kg	100/200 kg
Readability	5/10 g	10/20 g	20/50 g	50/100 g
Resolution	1/3,000(Dual interval)			1/2,000 (Dual interval)
Display Digit	6 digits			
Display Type	LCD			
Operating Temperature	-10 ~ +40 °C			
Power	Rechargeable battery / Adapter (12V/1.25 A)			
Platter Size (W x D)	355 x 443 mm			
Product Size (W x D x H)	355 x 611 x 65 mm			
Product Weight	6.2 kg			



* PB-Link is a control application for PB/PBII (Bluetooth version).
android (Only Available on Android)

Bench Scale

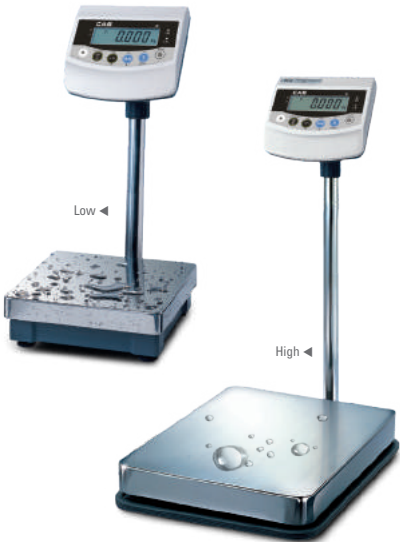
BW-1N



- Environmentally sealed (IP65)
- Tilt (90°) and swivel (360°) head
- Weight comparison function
- Counting function

OPTION > Backlight > Rechargeable battery pack with adapter
Wall-mount tilt bracket > Printer: DEP-50 (ticket)

Model	BW-1N				
Max. Capacity	6 kg	15 kg	30 kg	60 kg	150 kg
Readability	2 g	5 g	10 g	20 g	50 g
Resolution	1/3,000				
Display Digit	5 digits (Weight)				
Display Type	LCD (backlight)				
Operating Temperature	-10 ~ +40 °C				
Power	Dry battery, rechargeable, adapter				
Platter Size (W x D)	280 x 280 mm		420 x 520 mm		
Product Size (W x D x H)	280 x 350 x 530 mm		425 x 675 x 755 mm		
Product Weight	5.3 kg		17.4 kg		



Bench Scale

CWP

- Stainless steel IP67 indicator & IP 67 loadcell
- Highly-legible display
- Built-in rechargeable battery
- Adjustable display
- Robust design
- Indicator angle control

OPTION > LED display

Model	CWP			
Max. Capacity	30/60 kg	60/150 kg	30/60 kg	60/150 kg
Readability	10/20 g	20/50 g	10/20 g	20/50 g
Resolution	1/3,000 (Dual interval)			
Display Digit	LED		LCD	
Display Type	6 digits (7-Segment)		6 digits	
Sign For Status	ZERO, TARE, GROSS, NET, STABLE, HOLD, UNIT			
Operating Temperature	-10 ~ +40 °C			
Power	DC adapter / Rechargeable battery			
Key	10 Numeric keys & 5 Function keys			
Battery Life	30 hours		180 hours (When the backlight off)	
Charging Time	12 hours			
Platter Size (W x D)	400 x 520 mm			
Product Size (W x D x H)	415 x 652 x 758 mm			
Product Weight	15 kg			



Product Movie

Bench Scale

CK200SC

- All stainless steel bench scale
- Stainless steel load Cell & IP67 indicator
- High visibility LED display
- RS-232C interface

OPTION > RS-422/RS-485 interface > Printer: DEP-50 (ticket), DLP-50 (label)
> Bright comparator light - Yellow, Green, Red (only for CK200SC) > LCD display

Model	CK200SC				
Max. Capacity	6 kg	15 kg	30 kg	60 kg	150 kg
Readability	2 g	5 g	10 g	20 g	50 g
Resolution	1/3,000 (Single)				
Display Digit	7-Segment 6 digit				
Display Type	LED 13(W) x 20(H) LED bar for weight comparison				
Sign For Status	STABLE, ZERO, TARE, G/N, BAT, HOLD, COM, kg/lb, UNDER, OK, OVER				
Operating Temperature	-10 ~ +40 °C				
Power	DC adapter / Rechargeable battery				
Key	10 Numeric keys & 5 Function keys				
Battery Life	Approx. 30 hours				
Charging Time	12 hours				
Platter Size (W x D)	280 x 280 mm		400 x 520 mm		
Product Size (W x D x H)	293 x 363 x 510 mm		400 x 610 x 778 mm		
Product Weight	8.8 kg		20.5 kg		



▶ LCD display (option)



Bench Scale

DB-II



- Tilt (90°C) and swivel (360°C) head
- Aluminum die casting platform
- RS-232C interface
- Counting function
- Rechargeable battery

OPTION > Printer: DEP-50 (ticket) > Wall-mount stand > Wall mount tilt bracket
> Backlight (LCD type) > Load cell cable 3 meter (W type) > LED display > VFD display

Model	DB-II							
Max. Capacity	3/6 kg	6/15 kg	15/30 kg	30/60 kg	60/150 kg	30/60 kg	60/150kg	
Readability	1/2 g	2/5 g	5/10 g	10/20 g	20/50 g	10/20 g	20/50 g	
Resolution	1/3,000 (Dual interval)							
Display Digit	6 digits (Weight)							
Display Type	LCD (LED)						VFD	
Operating Temperature	-10 ~ +40 °C							
Power	DC adapter 9V/850mA						100~220V 50/60Hz	
Platter Size (W x D)	280 x 280 mm				420 x 510 mm			
Product Size (W x D x H)	280 x 350 x 530 mm				425 x 675 x 755 mm			
Product Weight	5 kg				14.7 kg		14 kg	



Bench Scale

DB Basic



- Tilt (90°) and swivel(360°) head
- Aluminum die casting platform
- RS-232C Interface
- Counting function

OPTION > Printer: DEP-50(ticket) > Wall-mount > Backlight > Dust cover

Model	DBB-360		DBB-460		
Max. Capacity	30/60 kg	60/150 kg	30/60 kg	60/150 kg	150/300 kg
Readability	10/20 g	20/50 g	10/20 g	20/50 g	50/100 g
Resolution	1/3,000 (Dual interval)				
Display Digit	6 digits (Weight)				
Display Type	LCD / LED				
Operating Temperature	-10 ~ +40 °C				
Power	DC adapter 9V/850mA / 6V 3.3Ah 20hr Pb battery				
Platter Size (W x D)	360 x 460 mm		460 x 570 mm		
Product Size (W x D x H)	360 x 580 x 765 mm		460 x 690 x 765 mm		
Product Weight	14.7 kg		20 kg		



Bench Scale

DB-1H



- Solid built frame & soft touch tact switch
- Die-casting large platform
- Pivot type indicator
- Rigid design for versatile uses
- Auto zero tracking

OPTION > RS-232C interface

Model	DB-1H			
Max. Capacity	15/30 kg	30/60 kg	60/150 kg	100/200 kg (non approval)
Readability	5/10 g	10/20 g	20/50 g	50/100 g
Resolution	1/3,000 (Dual)			1/2,000 (Dual)
Display Digit	5 digits			
Display Type	VFD			
Operating Temperature	-10 ~ +40 °C			
Power	AC 100~220V, 50/60 HZ			
Platter Size (W x D)	400 x 520 mm			
Product Size (W x D x H)	420 x 635 x 765 mm			
Product Weight	19 kg			



Bench Scale

HD

- High-resolution weighing
- Counting & percent mode support
- Check- weighing function (HI/OK/LO display)
- Easy operation with 9 function keys
- Rechargeable battery (80 Hours continuous use)
- Serial Interface – RS232 option

OPTION > RS-232(PC Communication / Receipt Printer)

Model	HD	
Max. Capacity	150 kg	300 kg
Readability	50, 10 g	100, 20 g
Resolution	1/3,000 ~ 1/15,000	
Display Digit	6 digits	
Display Type	LCD	
Operating Temperature	0 ~ +40 °C	
Power	AC adapter 12V/800mA Internal rechargeable sealed acid battery	
Platter Size (W x D)	400 x 500 mm	
Product Size (W x D x H)	400 x 630 x 750 mm	
Product Weight	15 kg	



Bench Scale

DL-N

- Battery operating
- AC adapter included
- Easy-to-read LCD display
- Auto-span adjustment
- Auto zero tracking

Model	DL-N			
Max. Capacity	60 kg	100 kg	150 kg	200 kg
Readability	20 g	50 g	50 g	100 g
Resolution	1/3,000	1/2,000	1/3,000	1/2,000
Display Digit	5 digits (Weight)			
Display Type	LCD			
Operating Temperature	-10 ~ +40 °C			
Power	DC 9V (1.5V x 6ea) /DC adapter			
Platter Size (W x D)	400 x 520 mm			
Product Size (W x D x H)	420 x 635 x 730 mm			
Product Weight	16 kg			



Bench Scale

ND-300/300H

- Die-casting platform & stainless-steel platter
- Rigid design for versatile uses
- Pivot type indicator
- Solid built frame

Model	ND-300/300H
Max. Capacity	300 kg
Readability	100 g
Resolution	1/3,000
Display Digit	5 digits (Weight)
Display Type	VFD
Operating Temperature	-10 ~ +40 °C
Power	AC100~220V, 50/60Hz
Platter Size (W x D)	480 x 640 mm
Product Size (W x D x H)	460 x 762 x 840 mm
Product Weight	19 kg



Bench Scale

DBI/SPS

- Large LCD display with backlight (20mm)
- Counting & percentage mode - Only DBI LCD
- Accumulation mode (Σ)
- Weight comparison (HI/LOW/OK) - Only DBI LCD
- RS-232C interface
- Ticket print-out (DEP-50)
- Rechargeable battery (Approx. 100 hours)
- Various sizes & capacities
- Stainless steel dust cover
- Strong and light packing with hardboard

OPTION > Wall mount stand > Wall mount tilt bracket > Back rail
> Printer: DEP-50 > LED display



Wall mount stand



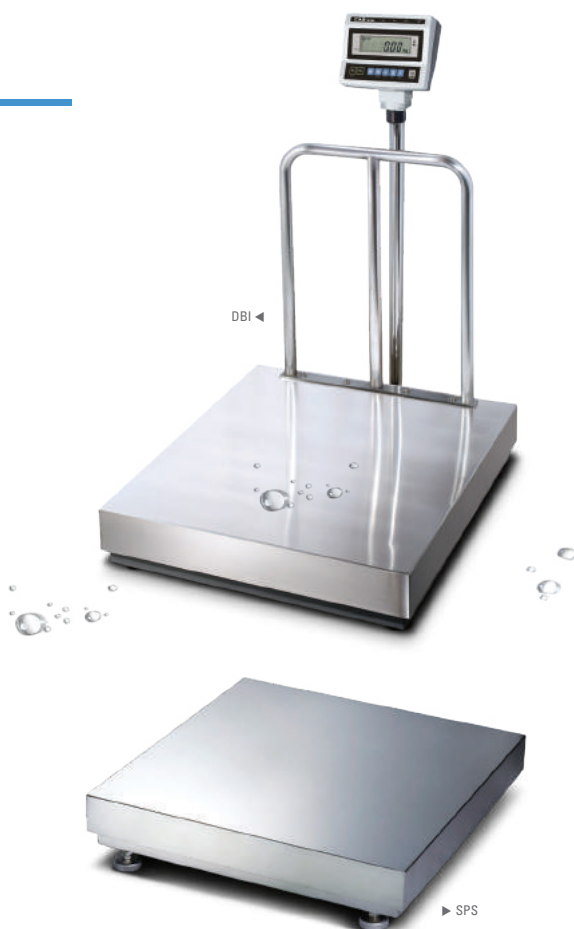
Wall mount tilt bracket



Back rail



Print connection



Model	DBI/SPS Series		
Max. Capacity	60/150 kg (SPS5060 only)	150/300 kg	300/600 kg
Readability	20/50 g	50/100 g	100/200 g
Resolution	1/3,000 (Dual interval)		
Display Digit	6/6/6 (Weight/Unit price/Total price)		
Display Type	LCD (LED)		
Operating Temperature	-10 ~ +40 °C		
Power	Rechargeable battery, 12V adapter		
Battery Life	Approx. 200hrs (backlight off)		
Dimension (W x D x H)	SPS5060 - 500x600x141/ SPS6070 - 600x700x165 mm SPS7080 - 700x800x165/ SPS8090 - 800x900x165 mm		
Back Rail (W x D)	SPS5060 - 270 x 450, SPS6070 - 400 x 550 mm SPS7080 & SPS8090 - 520 X 650 mm		
Product Weight	SPS5060- 22.5, SPS6070- 31.5, SPS7080- 39.7, SPS8090- 46.8 kg		

Floor Scale

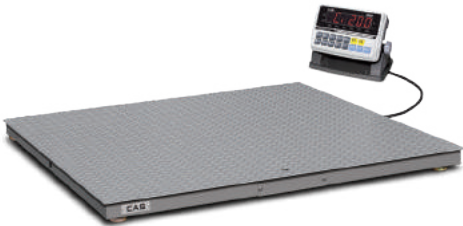
HFS



- Rugged construction and heavy-duty weighing plate
- Protected load cell wire by flexible cable
- Adjustable and swivel feet
- High quality powder coating

OPTION > Stainless steel construction > Access ramps > Pit frames

Model	Max. Capacity	Readability	Product Size (W x D x H)
0.5HFS	500 kg	0.2 kg	1,000 x 1,000 x 90 mm
0.5HFS	1,000 kg	0.5 kg	800 x 800 x 90 mm
1HFS	1,000 kg	0.5 kg	1,000 x 800 x 90 mm
1HFS *	1,000 kg	0.5 kg	1,000 x 1,000 x 90 mm
1HFS	1,000 kg	0.5 kg	1,000 x 1,200 x 90 mm
1HFS	1,000 kg	0.5 kg	1,100 x 1,100 x 90 mm
1HFS *	1,000 kg	0.5 kg	1,200 x 1,200 x 90 mm
1HFS	1,000 kg	0.5 kg	1,200 x 1,500 x 90 mm
2HFS *	2,000 kg	1 kg	1,200 x 1,200 x 90 mm
2HFS	2,000 kg	1 kg	1,200 x 1,500 x 90 mm
2HFS *	2,000 kg	1 kg	1,500 x 1,500 x 90 mm
3HFS *	3,000 kg	1 kg	1,200 x 1,200 x 90 mm
3HFS *	3,000 kg	1 kg	1,250 x 1,250 x 90 mm
3HFS	3,000 kg	1 kg	1,200 x 1,500 x 90 mm
3HFS *	3,000 kg	1 kg	1,500 x 1,500 x 90 mm
3HFS	3,000 kg	1 kg	1,500 x 1,800 x 90 mm
3HFS	3,000 kg	1 kg	1,500 x 2,000 x 90 mm
5HFS *	5,000 kg	2 kg	1,200 x 1,200 x 90 mm
5HFS *	5,000 kg	2 kg	1,500 x 1,500 x 90 mm
5HFS	5,000 kg	2 kg	1,500 x 1,800 x 90 mm
5HFS	5,000 kg	2 kg	1,500 x 2,000 x 90 mm



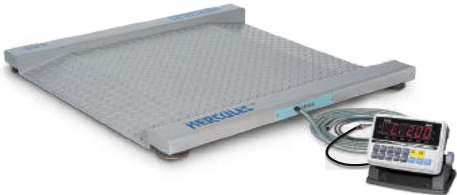
Roll-on Scale

ROLL-ON

- Rugged structure and low profile
- Heavy-duty weighing plate
- Protected load cell wire by flexible cable
- Adjustable and swivel feet
- High quality powder coating

OPTION > Indicator > Indicator stand

Model	R-300	R-500	R-1000	R-1500	R-2000
Max. Capacity	300 kg	500 kg	1,000 kg	1,500 kg	2,000 kg
Readability	0.1 g	0.2 g	0.5 g	0.5 g	1 kg
Product Size (W x D x H)	1,000 x 1,000 x 90 mm				



U-Scale

UFS

- Heavy-duty body
- High quality powder coating finish
- Full protection of load cells and cables

OPTION > Indicator > Indicator stand

Model	Max. Capacity	Product Size (W x D x H)
500UFS	500 kg	800 x 1000 x 70 mm 800 x 1200 x 70 mm 1000 x 1000 x 70 mm 1000 x 1200 70 mm
1000UFS	1,000 kg	
2000UFS	2,000 kg	
3000UFS	3,000 kg	
4000UFS	4,000 kg	



Bar Scale

BFS

- Heavy-duty body
- High quality powder coating finish
- Full protection of load cells and cables

OPTION > Indicator > Indicator stand

Model	Max. Capacity	Product Size (W x D x H)
500BFS	500 kg	120 x 1200 x 70 mm
1000BFS	1,000 kg	
2000BFS	2,000 kg	
3000BFS	3,000 kg	
4000BFS	4,000 kg	
5000BFS	5,000 kg	



Low Deck Truck Scale

LMT

- Wholly-enclosed cavity-shape scale for better strength, rigidity and anti-torsion of scale
- Quick to install, simple and optimized design of modular
- Integrated load cell modular for convenient installation on site
- Quality paint finish with shot blaster ball
- Non-slip surface, reduce accidents
- Size and capacity can be customized

OPTION > Local display > Guide rail > Unmanned Auto weighing system > PC software

Model	LMT			
Max. Capacity	60 ~ 80 ton			
Dead Weight	7 kg	8.5 kg	10 kg	11.4 kg
Sections/ Unit length	2/5.8+5.8m	3/5+5+5m	3/5.8+5.8+5.8m	3/5.8+5.8+5.8m
Product Size (W x D)	3 x 12 m	3 x 15 m	3 x 18 m	3 x 18 m
Q'ty of Module	4	6	6	6
Remark	Upper plate: Use 12t check plate			



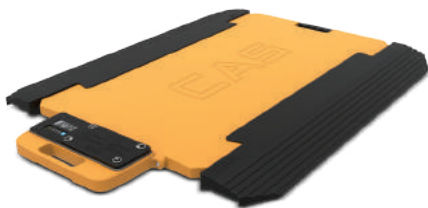
Vehicle Weighing Scale

RW-PLZ



- Low profile (Light Weight)
- Water proof IP67
- Balance weighing / In motion weighing
- Lithum-Ion battery operating time : 120hours
Charging time : 12hours
- BLE(Bluetooth) communication

Model	RW-PLZ	
Max. Capacity	10 ton	15 ton
Readability	20 kg	
Display	5digit LCD(excluded), character height 15mm, backlight	
Key	On/OFF, Zero, Sum(kg/lb), Light	
Protection Grade	IP67	
Communication Type	BLE (Bluetooth)	
Communication Range	40m	
A/D converting Speed	Nomal weighing: 10 times / sec In motion : 100 times / sec	
Power	D/C adapter Rechargeable battery, 3.7V / 7,800mAh Li-ion	
Battery Life/Charging Time	Approx. 120 hours / 12 hours	
Platform Size (W x D x H)	900 x 500 x 34 mm	
Body Weight	30kg (Display included)	



Road Weigher Indicator

RW-5000Z

- Horizontal balance function
- WIM function and WIM specification: ±3% accuracy
under 10km/h / WIM 12-axes measuring (Option)
- Indication of error number on indicator display for
communication errors between pads
- IN/OUT BOUND measuring per vehicle
(Full-vacant=product weight)
- Indication of upper limit exceeding weight at upper limit
setting or printing per axle/ setting print number of measuring

Model	RW-5000Z
Display	Graphic LCD with backlight
Weight Communication Type	BLE (Bluetooth 4.0)
Data Communication Type	RS-232C / USB
Rechargeable Battery	DC 12V adapter or DC 12-24V car charger for vehicle
Memory	Measuring data more than 10,000 on basis of 6-axes
Battery Life/Charging Time	Approx. 25 hours / 12 hours
Power	Pb DC 6V 10Ah
Printer	Thermal
No. of Connection Platform	8 ea
Product Weight	Approx. 4.5 kg (Net weight)



Vehicle Weighing Scale

RW-PL



- Excellent waterproof and dustproof effect
- Semi-permanent use with stainless steel and aluminum materials
- Easy transportation with compact size
- Accessories: Ramp, Cable

Model	RW-15PL
Max.Capacity	15 ton
Readability	50 kg
Protection Class	IP67
Product Size (W x D x H)	900 x 500 x 34 mm
Product Weight	19.5 kg
Ramp Weight	4.3 kg



Product Movie

Road Weigher Indicator

RW-5002PL

- Compact size & durable design
- Printing warning lamp and buzzer in case of overload
- Possibility of saving 100 car number & 8000 axle weight data
- External equipment data back-up through USB port
- IP67 waterproof indicator case
- Storage parts such as cigar jack, cable and adapter through option

Model	RW-5002PL
Display	Graphic LCD
Status indication	Zero, Tare, Stable, Battery Charge, Warning
Key	Alphanumeric key, Various function keys
Power	Pb DC 6V 10Ah
Rechargeable battery	DC 12V adapter or DC 12-24V car charger for vehicle
Battery life/Charging time	Approx. 25 hours / 12 hours
Product weight	Approx. 4.5 kg (Net weight)
Accessories	1 x Adapter, 1 x Printing paper, 1 x Shoulder belt



Vehicle Weighing Scale

RW-P



- Easy-to-carry portable type
- Easy to measure small/large size vehicle
- Semipermanent structure made from aluminum
- Outstanding water resistant and vibration-proof effect
- High accuracy & slim shape
- Possible to display weight of each wheel or of all wheels
- Used for finding over-loaded vehicle and weighing test when car is let out

OPTION > Dummy plate



Model	RW-01P	RW-05P	RW-10P	RW-15P
Max.Capacity	1,000 kg	5,000 kg	10,000 kg	15,000 kg
Division	0.5 kg	2 kg	5 kg	10 kg
Accuracy	-0.1%			
Compensated Temperature	-10 ~ +40°C			
Operating Temperature	-40 ~ +70°C			
Product Size (W x D x H)	500x400x39 mm		900x500x39 mm	
Dummy Plate	-		17.2 kg	
Ramp Weight	1.9 kg		6.4 kg	
Product Weight	15.8 kg		30.2 kg	
Shipping Weight	29.4 kg		47.6 kg	

Road Weigher Indicator

RW-2601P

- Built-in clock • 1 Serial port : RS-232
- Built-in charger and batteries • 10 Vehicle number memories
- High speed dot matrix receipt printer
- Connect to a PC or a remote Display
- Connect up to 6 platforms simultaneously
- Completely self-contained portable unit
- Large easy-to-read LCD display with backlight
- Product Weight : 18.7lb/8.5kg



Model	RW-2601P
Operating Power	Inner battery operation (DC6V/10AH 2EA)
Power Source	AC 110/220V, 50/60 Hz
Display Type	LCD with back light
Display Designators	Stable, Zero, kg/lb, bat

Road Weigher Indicator

RW-5000P

- Easy to carry with compact size
- 6 ports for wired-connection with RW-PADs
- Graphic display, alphanumeric & function keys
- Built in printer for promptly printing
- RS-232C for data transfer
- Store (Record) 100 vehicles information & 10,000 axle weight data
- USB Port for data back-up (Stored in text or csv file when backed up to USB memory / Selectable type of file)
- Supports various printing formats
(Company, Site, Wheel/Axle weight, Driver, Inspector & Time etc.)

Model	RW-5000P
Display	Mono Graphic LCD
Status display	ZERO, STABLE, CHARGE, WARNING, BATTERY
Key	Alphanumeric & function keys
Operating Power	Pb 6V 10Ah rechargeable battery
Charging Power	DC 12V 1.5A adapter
Operating Time	25hours
Battery Charging Time	12hours
Interface	RS-232C (for data transfer), USB (for data back-up)
Printer	Thermal print
Product Weight	Approx. 6.5kg
Accessory	1 x DC12V Adapter for charging / 1 x User manual 1 x Printing paper roll / 1 x Shoulder belt / 1 x Cigar jack



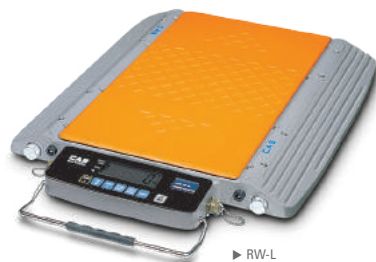
Vehicle Weighing Scale

RW-S/L



- Easy-to-carry portable type
- Possible to display weight of each wheel or of all wheels
- Semipermanent structure made from stainless steel or aluminum
- Outstanding water resistant and vibration-proof level
- Easy to measure small/large size vehicle
- Used for finding over-loaded vehicle
- Weighing test when car is let out
- Auto backlight & high accuracy
- Rechargeable battery : AA size (6x2)

Model	RW-05S	RW-10S	RW-05L	RW-10S
Max.capacity	5,000 kg	10,000 kg	5,000 kg	10,000 kg
Readability	2 kg	5 kg	2 kg	5 kg
Accuracy	0.1 %			
Size	P x P	340 x 310 mm		340 x600 mm
	W x L x H	458 x 536 x 60 mm		718 x 566 x 60 mm
Power	1.2V AA size rechargeable battery 2pack (1Pack = 6 EA)			
	DC adapter			
Battery Operation time	Approx. 20hours (Charging time: Approx.10 hours)			
Display	5digit LCD (height 25mm)			
Operating Temperature	-10 ~ +40℃			



Crane Scale

CASTON-II PLUS



High visibility LED/LCD display

Rugged enclosure suitable for rough environment

IP65 Watertight structure against moisture and dust

Easy to change battery pack

Top shackle and selectable bottom hook type between non-swivel and swivel hook

Infrared remote controller (Standard)



■ FEATURE

High-visibility
LED/LCD displayRugged and
watertight structure

Long battery operating time

Linkable with handheld
indicator (Optional)

■ SPECIFICATION

Model	CASTON II PLUS-E(LED)	CASTON II PLUS-C(LCD)
Max. Capacity	0.5 / 1 / 2 / 3 / 5 / 10 ton	
Legibility	0.2 / 0.5 / 1 / 1 / 2 / 5 kg	
Resolution	1/2,000 ~ 1/3,000	
Display	5 digits LED (Height : 38mm)	6digits LCD (Height :28mm) with backlight
Status Indication	Zero, Tare, Hold, kg/lb, Stable, Low battery, Hi/Lo/OK	Zero, Tare, Hold, kg/lb, Stable, Battery gauge, Hi/Lo
Key	5 Function key : Power, Zero, Tare, Hold, *(function)	
Ingress Protection	IP65	
Power	DC 3.7V / 7,800mAh Li-ion battery pack	
Battery Operating Time (For 1 battery pack)	150 hours	300 hours
Battery Charging Time	12 hours	
Hook type	Selectable between non-swivel or swivel hook	
Wireless Comm.	Standard : Infrared (For remote controller) Optional : Bluetooth (For TWN-B), Zigbee (For TWN-Z)	
Operation Temperature	- 10 ~ +40 °C	

Crane Scale CASTON-I

CE

- Washdown case
- Battery operated with low battery indication
- On/off, zero, tare and hold function
- Various display (LCD/LED)

Model	0.1THA	0.2THA	0.3THA	0.5THA	1THA	2THA
Max.Capacity	100 kg	200 kg	300 kg	500 kg	1,000 kg	2,000 kg
Readability	0.05 kg	0.1 kg	0.1 kg	0.2 kg	0.5 kg	1 kg
Resolution	1/2,000	1/2,000	1/3,000	1/2,500	1/2,000	1/2,000
Display Digit	5 digits					
Display Type	LED (1.5inch)					
Operating Temperature	-10 ~ +40 °C					
Power	Rechargeable battery / DC adapter					
Product size (W x D x H)	258 x 440 x 1,330 mm					
Product Weight	6.5kg		6.7 kg		6.9 kg	



Crane Scale CASTON-III PLUS

CE

- 1.5 inch high visibility LED display
- Rugged enclosure suitable for rough environment
- Watertight structure, protect against moisture and dust
- High accuracy up to +/-0.03% of capacity
- Infrared remote controller (for up to 8m)
- Low battery status lamp
- Easy to change a battery pack
- Swivel hook
- Auto power off, sleep mode, hold functions

OPTION > Bluetooth communication > TWN (Portable handheld indicator)

Model	1THD	2THD	3THD	5THD	10THD	15THD	20THD	30THD	50THD
Max.Capacity	1t	2t	3t	5t	10t	15t	20t	30t	50t
Readability	0.05kg	1kg	2kg	2kg	5kg	10kg	10kg	20kg	20kg
Resolution	1/2,000	1/2,000	1/1,500	1/2,500	1/2,000	1/1,500	1/2,000	1/1,500	1/2,500
Display Digit	5 digits								
Display Type	LED (1.5inch)								
Operating Temperature	-10 ~ +40 °C								
Power	Rechargeable battery / DC adapter								
Product Size (W x D x H)	280 x 341 x 510 mm	280 x 341.5 x 515 mm	280 x 341.5 x 515 mm	280 x 341 x 538 mm	280 x 360 x 945 mm	280 x 360 x 886 mm	280 x 360 x 990 mm	280 x 440 x 1200mm	280 x 440 x 1520mm
Product Weight	28kg	28kg	28kg	31kg	44kg	53kg	76kg	220kg	390kg



CASTON III PLUS
(1, 2, 3, 5ton)



CASTON III PLUS
(10, 15, 20, 30, 50ton)

Crane Scale

IE-1700

- Adjustable brightness of the display (5 degrees)
- Wireless remote controller
- Battery operated with low battery indication

Model	IE-1700				
Max.Capacity	100 kg	200 kg	300 kg	500 kg	1,000 kg
Readability	0.05 g	0.1 g	0.1 g	0.2 g	0.5 g
Resolution	1/2,000		1/3,000	1/2,500	1/2,000
Display Digit	5 digits				
Display Type	LED (1.2inch)				
Operating Temperature	-10 ~ +40 °C				
Power	Rechargeable battery / DC adapter				
Dimensions (W x D x H)	225 x 375 x 130 mm			225 x 405 x 130 mm	
Product Weight	4 kg			4.2 kg	



Tension Meter

TM



- Conversion of various units
- IP65 Waterproof enclosure
- Large LCD display (letter height: 1.2inches, 30mm) to easily view weights
- Peak hold, set points for relay control and keypad setup
- Long battery operating time
- Various commnication interfaces
- Two optional wireless communication - Bluetooth or Zigbee

OPTION > TWN(Selectable between Bluetooth or Zigbee communication)
> Wireless communication(Selectable between Bluetooth or Zigbee)
> Top and Bottom Shackle > Portable carrying case(only for under 5 ton)
> 20m Cable



Product Movie

Model	TM							
Max Capacity (kg)	500	1,000	3,000	5,000	10,000	15,000	25,000	50,000
Division (kg)	0.5	1	2	5	10	10	20	50
Accuracy	≤ 0.1% of full capacity							
Safety Factor	3:1							
Power	4 AA size 1.5V alkaline batteries / 0.3~0.5W							
Battery Operating Time	Wire type: Approx. 500 hours / Wireless type: Approx. 44hours							
Display	5 digit LCD display / Character height : 1.2inches (30mm)							
Operating Temperature	-20 ~ +60°C							
Protection Class	IP65							
Material	Aluminum					Steel		
Communication	Standard : RS-232C/RS-485/Setpoint (3 points) Option : Bluetooth or Zigbee wireless communication							
Wireless Communication Distance	Bluetooth:Max. 100m / Zigbee:Max. 100m (only for open site)							
Product Weight (kg)	2.3	2.3	2.5	3.3	12	18	22	40



► TWN

Pallet Scale

CPS

- Easy operation
- Saving time with carrying and weighing at once
- Uses oil pressure for a stable fork lowering
- Versatile for any room size
- Heavy duty for any job size

OPTION > Printer

Model	CPS-1	CPS-2
Product Size	A Type: 540 x 1140 mm B Type: 620 x 1140 mm C Type: 705 x 1140 mm	
Capacity	1000 kg	2000 kg
Readability	0.5 kg	1 kg
Display	5digit LCD (Height 25mm)	
Power	DC6V/ 10Ah battery (AC 110V/220V charger)	
Operating Temperature	-10 ~ +40 °C	



Pallet Scale

CPSPLUS/MP

- Easy to access the battery pack
 - High-visibility display
 - 10 numeric keys & 5 function keys
 - Hydraulic lifting and lowering
 - Durable polyurethane wheels
 - Solid and optimum design for logistics
 - Verified pallet truck scale
- (With OIML & EC type approval : MP only)

OPTION > Thermal printer > Wheel brake (MP only)

Model	CPSPLUS-1	CPSPLUS-2	MP-1	MP-1.5	MP-2
Product size (W x L)	A Type: 540 x 1140 mm B Type: 620 x 1140 mm C type: 705 x1140 mm				
Capacity	1500 kg	2500 kg	1000 kg	1500 kg	2000 kg
Readability	0.5 kg	1 kg	0.5 kg	0.5 kg	1 kg
Display	6 digits LED (Height:25mm)		6 digit LED (Height: 25mm), 5 digit + sign LCD (Height: 24mm)		
Power	DC 6V/ 5Ah battery (AC 110V/220V charger)		6VDC / 10Ah rechargeable battery (6VDC / 2Ah charger)		
Battery Operating Time	100 hours (continuous usage)		85 Hours		
Battery Charging Time	12 Hours		10 Hours		
Operating Temperature	-10 ~ +40 °C				



Food waste pickup scale

CBS PLUS

- Picking up and weighing food waste at once
- Rugged construction
- Easy operation
- Storing and searching weighing data

OPTION > Printer

Model	CBS ^{PLUS}
Max.Capacity	300 kg
Readability	0.5 kg
Resolution	1/600
Indicator	CI-605A
Operating Temperature	-20 ~ +50 °C
Power	DC24V (Vehicle power usage)
Product Size (W x D x H)	External panel : 300 x 306 x 320 mm Platform : 930 x 720 x 110 mm
Product Weight	External panel : Approx. 15 kg / Platform : Approx. 26 kg



Product Movie



Drum Scale

CDS PLUS

- Easy-to-carry (Battery type)
- Easy operation
- Possible to change drum clamp method according to shape of drum (ex: plastic drum)
- Reduces working hours by weighing while moving to destination simultaneously
- Automatic lifting and lowering of drum

Model	CDS ^{PLUS}
Max.Capacity	300 kg
Readability	0.1 kg
Power	DC12V
Measuring Range	Ø590 x 890 mm
Indicator	CI-200



Fork Lift Scale

CFS

- Easy attachment of scale to forklift
- Built-in level sensor for precision improvement
- Reduces working hours by weighing while moving to destination simultaneously
- Scale and transportation function

Model	CFS-2	CFS-3	CFS-5
Max. Capacity	2000 kg	3000 kg	5000 kg
Readability	1 kg	2 kg	3 kg
Power	DC12V		
Indicator	CI-2001BS 5digits LCD (IP65)		
Product Size (W x D x H)	1050 x 136 x 407 mm	1200 x 148 x 508 mm	1750 x 172 x 635 mm
Product Weight	220 kg	290 kg	600 kg



Logistics Inspection System

CLIS-200

- Weigh products / Manage barcodes
- Portable tray
- Durable structure (Sensor protection)
- Industrial PC / 15" touch monitor
- Barcode scanner connect
- Stock control program installed

OPTION > Barcode scanner connect

Model	CLIS-200
Max. Capacity	60 kg
Readability	10 g
Display	15" Touch monitor
Power	AC 220V
Tray Size (W x D)	700 x 600 mm
Product Size (W x D x H)	810 x 910 x 1600 mm



Product Movie



Logistics Inspection System

CLIS-500

- Measure the weight/volume
- Fixed tray
- Image data save and barcode scan
- Durable structure(Sensor protection)
- Industrial PC / 15" touch monitor
- Measuring, operating program installed

OPTION > Barcode scanner connect

Model	CLIS-500
Max. Capacity	60 kg
Readability	10 g
Measuring Range (W x D x H)	MAX : 500 x 450 x 450 mm MIN : 150 x 150 x 50 mm (Allowable error : +/- 5)
Display	15" touch monitor
Power	AC 220V
Tray Size (W x D)	700 x 600 mm
Product Size (W x D x H)	820 x 920 x 2150 mm



Logistics Inspection System

CLIS-700

- Auto weighing, volume, image saving, measuring
- Image data save and barcode scan
- Image data USB back up
- Auto system
- Industrial PC / 15" touch monitor
- Auto measuring, operating program installed

OPTION > Handy barcode scanner connect

Model	CLIS-700
Max. Capacity	60 kg
Readability	20 g
Measuring Range (W x D x H)	MAX : 600 x 750 x 600 mm MIN : 50 x 150 x 50 mm (Allowable error +/- 5)
Display	15" touch monitor
Power	AC 220V
Product Size (W x D x H)	1500 x 1200 x 2550 mm



CLIS Private Program

Auto Checker

CCK-700

- 8 inch touch panel & User-friendly graphic user interface
- Optimization of weighing configuration
- Store up to 999 products
- Various Interface (RS-232C, RS-485, Ethernet, USB)
- Data back-up & Parameter setting via USB memory
- Modbus RTU/ Modbus TCP support
- Stable stainless steel structure



Model code		CCK700-WB006		CCK700-WB012		CCK700-WB030		
		I15W02	I14W03	I14W13	I23W24	I23W24	I34W35	I45W46
Capacity		600g		1,200g		3,000g		
Weigh Range		2~300g	3~600g	5~600g	10~1,200g	30~3,000g		
*Readability		0.05g	0.1g	0.1g	0.1g	0.5g		
Max. Accuracy		±0.1g(3σ)	±0.2g(3σ)	±0.2g(3σ)	±0.3g(3σ)	±1.0g(3σ)		
Max. Throughput (ea/min)		400	320	320	240	170	140	110
Conveyor Belt Speed (m/min)		10~110		10~110		10~80		
Product Dimension (mm)	Width	10~100		20~150	20~220	20~220	20~300	20~380
	Length	40~200	40~300	45~300	45~400	50~400	50~500	20~380
	Height	3~120		5~180		3~250		
Conveyor (mm)	Feed	150W×550L	150W×450L	150W×450L	220W×350L	220×350	300×450	380×550
	Weighing	100W×250L	100W×350L	150W×350L	220W×450L	220×450	300×550	380×650
	Reject	150W×450L	150W×450L	150W×450L/550L	220W×450L/550L	220×550	300×550	380×650
Rejector		Flip bar, Drop belt, Pusher bar, Air jet, Air pusher				Flip bar, Drop belt, Pusher bar, Air pusher		

Model code		CCK700-WB060		CCK700-WC150		CCK700-WC300		CCK700-WC600	
		I34W35	I45W46	W407	W409	W509	W511	W611	W613
Capacity		6,000g		15kg		30kg		60kg	
Weigh Range		30~3,000g	60~6,000g	0.1~15kg		0.2~30kg		0.5~60kg	
*Readability		0.5g	1g	5g		10g		10g	
Max. Accuracy		±1.5(3σ)	±3.0(3σ)	±10(3σ)		±10(3σ)		±30(3σ)	
Max. Throughput (ea/min)		100	90	70	50	45	40	40	30
Conveyor Belt Speed (m/min)		10~65		21/25/32/35/42/50		13/16/21/25/32/35/42			
Product Dimension (mm)	Width	20~300	20~380	20~400	20~400	20~500		20~600	
	Length	50~500	50~600	50~600	80~800	200~800	200~1,000	200~1,000	200~1,200
	Height	5~350		10~500		10~500			
Conveyor (mm)	Feed	300W×450L	380W×550L	400		500		600	
	Weighing	300W×550L	380W×650L	700L	900L	900L	1,100L	1,100L	1,300L
	Reject	300W×550L/650L	380W×550L/650L	700L	900L	900L	1,100L	1,100L	1,100L
Rejector		Flip bar, Drop belt, Pusher bar, Air pusher			Pusher roller, Air pusher				

Auto Checker
CCK-5500

- Arbitrary selection of absolute value and deviation measurement method
- Built-in data double back up function in case of blackout
- Auto zero tracking function
- Built-in temperature change and noise compensation circuit

OPTION > Printing function



Auto Checker
CCK-5900

- Convenient 10" touch screen type
- Built-in data double back up function in case of blackout
- Zero and SPAN auto calibration function
- Built-in temperature change and noise compensation circuit
- Weight setting value storage and recall functions for each item (999EA)
- Convenient data collection and analysis
- USB memory storage and update



Product Movie

Model	300	600	1200	3K	6K	20K	30K	40K	60K
Max. Capacity	0.3 kg	0.3 kg	1.2 kg	3 kg	6 kg	20 kg	30 kg	40 kg	60 kg
Weigh Range	3 ~ 300 g	6 ~ 600 g	12 ~ 1,200 g	30 ~ 3,000 g	6 ~ 6,000 g	200 ~ 20,000 g	300 ~ 30,000 g	400 ~ 40,000 g	600 ~ 60,000 g
Optimum Accuracy	±0.15 g	±0.3 g	±0.4 g	±1.5 g	±3 g	±10 g	±10 g	±20 g	±40 g
Readability	0.05 g	0.1 g	0.2 g	0.5 g	1 g	5 g	5 g	10 g	20 g
Belt Width	100 mm	150 mm	220 mm	300 mm	360 mm	380 mm	480 mm	580 mm	680 mm
Max. Weighing Speed	250 ea/min	220 ea/min	180 ea/min	100 ea/min	75 ea/min	60 ea/min	45 ea/min	30 ea/min	20 ea/min
Feed Speed	10 ~ 84 m/min	10 ~ 74m/min	10 ~ 74 m/min	10 ~ 58 m/min	10 ~ 53 m/min	10 ~ 54 m/min	10 ~ 52 m/min	10 ~ 49 m/min	10 ~ 33 m/min
Product Dimension Size	Width	30 ~ 100 mm	30 ~ 150 mm	30 ~ 220 mm	30 ~ 300 mm	30 ~ 360 mm	30 ~ 380 mm	30 ~ 480 mm	30 ~ 680 mm
	Length	30 ~ 200 mm	30 ~ 260 mm	30 ~ 320 mm	30 ~ 450 mm	30 ~ 550 mm	30 ~ 700 mm	30 ~ 900 mm	30 ~ 1,100 mm
Power	200VAC ±10%, Single phase, 50/60Hz								
Circumstances	5°C ~ 35°C (41°F ~ 95°F), Variation not to exceed ±2°C (4°F)/hr, Relative Humidity: 35% ~ 85%								

Metal Detector

CMS2000

- Character input mode: Easy to register product name by keypad
- Adjustable detection signal timer
- Attribute: Selection signal contact (A or B)
- New item register: Register max. 99 items
- Factory setting: Save and restore default setting
- Basic screen
 - Quick setting by function key (F1~F4)
 - Quick setting sensitivity and item name
 - Value of product effect
- Auto calibration
 - Quick calibration of products passing through
 - Easy to understand product status (Dry or Wet)
 - Auto searching for adapted phase angle



OPTION > IP69k (Waterproof) > Linkable to PC > Cover for wind breaking

> Plastic belt/Urethane belt

Model	CMS2000-350						CMS2000-600					
Belt Width	100 mm	150 mm	200 mm	250 mm	300 mm	350 mm	350 mm	400 mm	450 mm	500 mm	550 mm	600 mm
Aperture Width	200 mm	250 mm	300 mm	350 mm	400 mm	450 mm	450mm	500 mm	550 mm	600 mm	650 mm	700 mm
Product Weight	0.4 kg	0.6 kg	1.5 kg	2.0 kg	3.0 kg	6.0 kg	20 kg	20 kg	30 kg	30 kg	40 kg	40 kg
Pass Height	Aperture height: 30mm						Aperture height: 30mm					
Conveyor Length	900/1000/1100mm						1300/1500/1800mm					
Speed Range	10~70m/min						10~50m/min					
Rejector Type	Belt stop, Flip bar, Pusher, Air blast, Drop down, Swing						Belt stop, Pusher, Drop down, Swing					
Power Requirements	200VAC ±10%, 1 Phase, 50/60Hz						200VAC ±10%, 1 Phase, 50/60Hz					

Rejector



Air Jet

Uses strong winds to sort (appropriate for light materials)



Carrier

Changes directions to a sliding type



Conveyor Drop

Moves conveyor belt up or down



Belt Pusher

Pusher pushes materials out from the conveyor



Roller Pusher

Sorts materials in roller conveyor as the belt pusher (appropriate for heavy materials)



Flip Bar

Flip bar pushes in both directions

Type	Air Jet	Carrier	Conveyor Drop	Belt Pusher	Roller Pusher	Flip Bar
Max. Capacity	1.2 kg	600 g	6 kg	30 kg	3 ~ 60 kg	6 kg
Max. Throughput	250 pcs/min	180 pcs/min	60 pcs/min	180 pcs/min	80 pcs/min	120 pcs/min
Sorting Point	2	3	2	2	2	3
Conveyor Belt Width	100 ~ 220 mm	150 mm	100 ~ 360 mm	100 ~ 480 mm	510 ~ 940 mm	100 ~ 360 mm

Multi-level Checkweigher

CCK-5500-M

- Automatic checkweighers used for fishery products or products that need to be sorted separately by weight grade
- Optimum Accuracy can be different depending on product condition and conveyor speed
- Max. Weigh Speed can be different depending on product condition and conveyor speed
- Weight grade can be enabled up to 8 grade

OPTION > Buzzer & Lamp > Printer

Model	CCK-5500-M
Weighing Range	10 g ~ 60 kg
Precision Resolution	0.1 g ~ 20 g
Maximum Throughput	280 ea/min
Belt Speed	10 ~ 110 m/min
Product Memory	50 Item
Weight Grade	Standard 8 grade



Filling Machine

CFM-030KMS

- Second control valve for high speed and fixing
- Nozzle for simple resolution and cleaning structure
- Possible to use in explosive environments
- Possibility of high temperature filling
- Free roller sticking at the upper part of the scale
- Easy nozzle position adjustment
- Capa: 30kg / Readability: 10g

APPLICATION > Water paint > oil-based paint > oil paint > lubricating oil > phenol acetone > cooking oil > thinner > varnish > resin > chemicals

Model	CFM-030KMS					
Belt Width	100 mm	150 mm	200 mm	250 mm	300 mm	350 mm
Aperture Width	200 mm	250 mm	300 mm	350 mm	400 mm	450 mm
Product Weight	0.4 kg	0.6 kg	1.5 kg	2.0 kg	3.0 kg	6.0 kg
Pass Height	Aperture height: 30mm					
Conveyor Length	900/1000/1100mm					
Speed Range	10~70m/min					
Rejector Type	Belt stop, Flip bar, Pusher, Air blast, Drop down, Swing					
Power Requirements	200VAC ±10%, 1 Phase, 50/60Hz					



Auto MAP Machine

CTMAP

- Maintenance of freshness by inert gas exchanging
- SUS body for durability and rust prevention
- BUSCH pump for better performance
- Mould type for easy use

Model	CTMAP-S200-2	CTMAP-S200-4	CTMAP-A200-2	CTMAP-A200-4
Tray Size (W x D x H)	182 x 234 x 80 mm			
Width of Film	445 mm			
Diameter of Film	255 mm			
Packaging Speed	4 ~ 5 times/min		4 ~ 6 times/min	
Power	3Ø 380V 50Hz			
Vacuum Pump	40 m³/h	63 m³/h		
Product Size (W x D x H)	1000 x 1200 x 1700 mm	1150 x 1250 x 1700mm	2500 x 950 x 1500mm	3500 x 950 x 1500 mm
Gas	CO ₂ , O ₂ , N ₂			

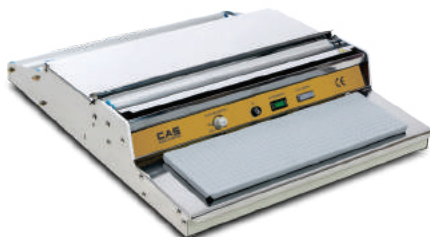


Hand Wrapper

CNW

- SUS body for durability
- Safety by double aluminum covered heater
- Anti-slip with embossed soleplate
- Easy and simple temperature control using the volume on the electronic control panel

Model	CNW-460
Product size (W x D x H)	470 x 600 x 100 mm
Temperature of H/P	90 C MAX
Temperature of H/C	150 C MAX
Voltage	220V / 50-60Hz
Wrapping Length	450mm FILM
Power Consumption	175W
Weight	6 kg
Material For Sealing	PE, PVC WRAP FILM



Hand Sealer CNT

- Ultra-light plastic body
- Transformers of the highest quality
- Long product lifespan due to insulating paint coating
- Anyone can use it easily and safely

Model	CNT-200/2	CNT-300/2	CNT-400/2
Product size (W x D x L)	75 x 200 x 300 mm	75 x 200 x 410 mm	75 x 200 x 510 mm
Temperature of sealing	Max. 150 C		
Sealing time	MIN 0.5 - MAX 3 Sec		
Regular sealing time	1.5 Sec		
Length of sealing (W x L)	2 x 200 mm	2 x 300 mm	2 x 400 mm
Power consumption	310 mm	510 mm	700 mm
Sealing thickness	0.5 Below mm	0.5 Below mm	0.5 Below mm
Product weight	3 kg	3.4kg	4kg
Fuse	3A	4A	5A
Material for sealing	PE, PP, LDPE, PVC		



Hand Sealer CXP

- Ultra-light plastic body
- Transformers of the highest quality
- Long product lifespan due to insulating paint coating
- Anyone can use it easily and safely

Model	CXP-200/5
Product Size (W x D x L)	450 x 380 x 210 mm
Temperature of Sealing	Max. 150 C
Sealing Time	MIN 0.5 - MAX 2.5 Sec
Regular Sealing Time	1.5 Sec
Length of Sealing (W x L)	2 ~ 5 x 200 ~ 400 mm
Power Consumption	950 mm
Sealing Thickness	0.5 below mm
Product Weight	3.3kg
Material For Sealing	PE, PP, LDPE, PVC



Foot Sealer (Semi-auto Type)

CNS

- Auto operation by time setting
- Solenoid to lessen body burden

Model	CNS
Product Size (W x D x H)	540 x 470 x 440 mm In case of NS-450
Temperature of Sealing	MAX. 150 C
Sealing Time	MIN 0.5 - 2.5 Sec
Regular Sealing Time	variable depending on film type
Length of Sealing (W x L)	2 ~ 10 x 200 ~ 800 mm
Power Consumption	950W
Sealing Thickness	0.5 mm Below
Product Weight	28 kg
Power Lamp/Sealing Lamp	With Color
Material for Sealing	PE, PP, LDPE, PVC



Foot Sealer (Auto type)

CNA

- One or two (upper, lower) heating elements are used
- Provide a reliable and clean seal
- Electric pedal
- Nichrome heating element supplied from Europe
- Teflon coating from DUPONT which has increased strength and wear resistance

OPTION > Additional shelf > 2 heating elements

Model	CNA
Product size (W x D x H)	540 x 470 x 440 mm In Case of PHA-450
Temperature of Sealing	MAX. 150 C
Sealing Time	MIN 0.5 - 2.5 Sec
Regular Sealing Time	variable depending on film type
Length of Sealing (W x L)	2 ~ 10 x 200 ~ 800 mm
Power Consumption	950W
Sealing Thickness	Below 0.5 mm
Product Weight	28 kg
Power Lamp/Sealing Lamp	With Color
Material for Sealing	PE, PP, LDPE, PVC



Vacuum Machine

CVP

- Control system: Computer control panel
- Vacuum pump
- Machine lid gemel
- Shake avoiding system
- Main structure's material
- V type lid gasket

OPTION > Gas

Model	CVP-260 PD	CVP-350 US	CVP-450/A
Machine Dimensions (L x W x H)	480 x 330 x 320 mm	560 x 425 x 460 mm	560 x 520 x 460 mm
Chamber Dimensions (L x W x H)	385 x 280 x 90(50) mm	450 x 370 x 220(170) mm	460 x 450 x 220(170) mm
Sealer Dimensions (L x W)	260 x 8 mm	350 x 8 mm	450 x 8 mm
Production Cycle	1 ~ 2 times/min		



Table top vacuum packaging machine

Tray Sealer

CTP

- Patented ruthenox heater
- Smart thermostat
- Silk screen printing heater
- Safe film cutting
- Adjustable sealing time
- Light-weighted and sophisticated design

Model	CTP-320	CTP-330
Product Size (W x D x H)	305 x 350 x 280 mm	405 x 350 x 480 mm
Power	AC 220V, 50/60Hz	
Consumption Power	1,400W-1,800W	
Film Size	130/150/160/240 mm	



Manual Packaging Machine

QD Series

- Easy install of film
- User friendly inlet
- Safe cutting device of film
- Effective temperature control
- Easy replace guide of each sizes



Weighing Solution



CAS is providing idealized solutions based on the sole power sensor technology in Korea for industrial sites, and offers various sensor technology applications such as explosion proof measurement, precise measurement, and quality management.



Weighing Controller CI-600A Series



High A/D conversion speed

High display resolution

Storing 100 items' information

Weight back-up

Self-hardware test function

PC software to manage indicator

Various communication interface

OIML R76 & R61 approved

OPTION > Analog Out Card (V-out (0-10 V) / I-out (4-20mA)
RS485/RS422 > BCD Out Card > Printer > Remote display
External 4In/60Outputs > External 6In/80Output



■ FEATURE



Shielded against noise
(RFI & EMI)



Display protection cover



User-friendly interface



USB data backup

■ SPECIFICATION

Model	CI-601A	CI-605A
Load Cell Excitation Voltage	DC 5V	
Load Cell Connection	10 EA (350Ω)	
Load Cell Input Range	-2.0 mV/V ~ 3.0 mV/V	
Input Sensitivity	0.5μV/D (Approval), 0.3μV/D (Non approval)	
A/D Internal Resolution	1/520,000	
A/D Display Resolution	1/10,000 (OIML / NTEP / KS), 1/20,000 (Non approval)	
A/D Conversion Speed	200 time/sec	
A/D Conversion Method	Sigma-delta	
Display	4.3" TFT Color LCD	
Key	Numeric Key 10, Function Key 9	
Interface	Standard	RS232 (COM1, COM2)
	Option	RS422, RS485, Analog out / BCD out
External I/O	-	Input 4 / Output 6
Power	AC	AC 100 ~ 240V 50/60Hz
Operating Temp	-10 ~ 40°C	
Certification	OIML, CE	
Dimensions (W x D x H)	192.9 x 190.2 x 98.4 mm	
Weight	1.5 kg	

Weighing Controller

CI-600D



- CI-600D for digital load cell
- User-friendly interface (4.3" Full Graphic TFT LCD)
- Self diagnosis of digital load cell
- ModBUS-RTU protocol (RS-485)
- USB data backup
- CI-600 manager program
- Various communication interfaces

OPTION > Analog Out Card (V-out (0~10 V) / I-out (4~20mA) > RS485/RS422

> BCD Out Card > Printer > Remote display > External 4in/6 outputs



Indicator

CI-400A Series



- Optimized size for efficient use of space
- Terminal block
- Fast and accurate weighing
- High visibility LED display
- Shielded against noise (RFI & EMI)
- Shortcut key setting(F1~F3)
- Applicable to various processes
- Various interfaces

OPTION > RS-422/485 (supports Modbus RTU protocol) > Analog output

> BCD In/Output > Remote display(CD-3000 Series) > Printers

> External 4in/6 outputs



► CI-407A



► CI-401A



► CI-405A

Indicator

CI-400AL

- Optimized size for efficient use of space
- Terminal block
- Fast and accurate weighing
- Large and clear LED display (Character Height : 38mm)
- Shielded against noise (RFI & EMI)
- Shortcut key setting
- Various interfaces



Indicator

CI-100A

- Small type indicator for bench scale
- High visibility LED display
- Power : 1.2 V Ni-MH rechargeable batteries & DC 6V 1A AC adapter / 4 x 1.5 V alkaline dry batteries
- Various interfaces (Standard : RS-232C,
Option : RS-485, USB, BLE (only one can be selected))
- 7 Function keys
- CE, OIML approved

OPTION > RS-485 > USB > Bluetooth (Only one can be selected)
Printer : DEP-50 (Ticket) > DLP-50 (Label)



Indicator

CI-101A

- Small type Indicator for bench scale
- High visibility LCD display
- Power : 1.2 V Ni-MH rechargeable batteries & DC 6V 1A AC adapter / 4 x 1.5 V Alkaline dry batteries
- Various interfaces (Standard : RS-232C,
Option : RS-485, USB, BLE (only one can be selected))
- 7 Function Keys
- CE, OIML Approved

OPTION > RS-485 > USB > Bluetooth (Only one can be selected)
Printer : DEP-50(Ticket) > DLP-50(Label)



Indicator

CI-120A

- Simple and prompt full digital calibration
- High A/D conversion speed (80 times/sec)
- Maximum external resolution 1/150,000
- Various power supplies
(AC 220V or rechargeable battery 6V, 4A)
- 8 Load Cell support • 48mm large display
- Display brightness adjustment (8 Levels)
- Show the counting of weight measurements (9,999 times)



Indicator

CI-170A



- Fast control
- Accurate weighing performance
- Compact DIN size body
- Clear LED display
- High visibility LED display
- Various Interface

OPTION > RS-485 (Supported modbus RTU) > RTC (Real time clock)
 > Analog output (0~20mA, 0~24mA, 4~20mA, 0~5V, 0~10V, $\pm 5V$, $\pm 10V$)
 > External 2 input/4 output > Adapter (DC 12V, 1.25A)

APPLICATION > Various measuring equipment > Platform scale



Indicator

CI-150A



- Minimal Size & Clear LED Display
- High speed ADC : 320 times/sec
- Support modbus RTU protocol
- Multi-calibration
- Various interfaces (Standard : RS-232C,
Option : RS-485, Analog output, External 2In/4output)
- Weight back-up

OPTION > RS-485, External 2 Input / 4 Output, RTC(Inner clock) > Analog output

APPLICATION > Various measuring equipment > Platform scale



Indicator

CI-2001AN/BN

- Wall-mounted/small indicator
- Watch-Dog circuitry (System restoration)
- Weight Back-Up (Saving of weight at sudden power failure)
- RS-232C interface
- Display: CI-2001AN (LED), CI-2001BN (LCD)
- USB Communication

OPTION > RS-422/485 interface > Inner Clock(CI-2001BN only)

> USB communication > Panel Guide

APPLICATION > Platform scale



Indicator

CI-200A/201A



- Clear display (CI-200A : LED, CI-201A : LCD)
- Number key & function key application
- Various types of power
- Weight back-up
- High speed of A/D conversion (80times/sec.)
- 1/10,000 high resolution
- 4 wire, 6 wire load cells support
(can be connected to 8 wire load cell)
- USB Communication(with power)

OPTION > RS-422/485 interface > Second serial communication-Ports > USB port

APPLICATION > Platform scale > Pallet scale > Forklift scale > Floor scale



Product Movie

Indicator

CI-200S/200SC



- IP67 & stainless steel structure
- Clear LED display
- Number key & function key application
- High speed of A/D conversion (80 times/sec.)
- Rechargeable battery
- Easy removable power & communication
cable through waterproof connector
- Compares with weight through weight comparing blinker light

OPTION > LCD display > RS-442/485 interface

APPLICATION > Platform scale, Floor scale



Bluetooth-Hand Type Indicator

TWN



- Compact size and handheld type
- Selectable communication
(option of choosing between Zigbee or Bluetooth version)
- TFT LCD display with screen visor
- USB communication to PC
- Memory capacity of 100 items & 5,000 recorded weight data
(including date, time and gross weight.)
- Item management and data back-up with TW-Works software

OPTION > Wireless communication (select Zigbee or Bluetooth version)



Indicator

PDI



- Suitable for the checkout scale and weighing system
- Easy operations
- Simple and prompt full digital calibration (automatic weight setup at once)
- Weight backup functions (restoring weight at the power supply On/Off)
- Multiple weights setup functions (5 point input weight setup)
- Command mode (ECR Protocol)
- 6 line(basic)/4 line load cell Input

OPTION > USB Interface



Indicator

PBI

- Economic indicator for 4 L/C platform Scale
- Pb R/Battery, DC 12V adapter
- Display : 6 digits with backlight (Digit Height = 30mm)
- 6 Pin connector with 0.3m cable (CI-200A Connector)
- RS-232C(RJ-11) as a standard
- Wall-Mount bracket as a standard
- Power : DC 12V adapter

OPTION > RS232C converter (RJ11 to D-Sub 9 pin)



Indicator

DBI



- Dual interval
- Counting & percentage mode
- Accumulation mode
- Weight comparison
- Daily total function
- Rechargeable battery

OPTION > Stand bracket > Wall bracket

APPLICATION > Bench scale > Single load cell application



Indicator

HDI



- Dual display indicator
- Dual interval
- Counting & percentage mode
- Accumulation mode
- Weight comparison
- Daily total function
- Rechargeable battery

OPTION > Stand bracket > Wall bracket

APPLICATION > Bench scale > Single load cell application



Indicator

EBI



- Price computing indicator
- Dual display
- 24 direct PLUs
- 200 Indirect PLUs
- Rechargeable battery
- Daily total function

OPTION > Stand bracket > Wall bracket

APPLICATION > Price computing application > Bench scale



Indicator

BI



- General (manganese, alkaline) battery or rechargeable battery
- High precision & high resolution
- Waterproof design (IP65)
- Backlight

OPTION > Rechargeable battery > fixing bracket

APPLICATION > Bench scale



Indicator

IE-116 PLUS

- Rechargeable battery
- LED display



Explosion Proof Indicator

EXI-200AD

- Weighing Indicator for Hazardous area (Zone 1, 2 & 21, 22)
II 2G Ex d IIB+H2 T6 Gb for gases
II 2D Ex tb IIIC T80°C Db for dusts
- ATEX & KCS approved
- Front opening structure
- A/D sampling rate : 320times/sec
- Resolution : 1/10,000
- 7 segment 6digits LED
- Touch keypad
- A variety of interfaces



OPTION > Analog out > Ethernet > External 2In/4Output > RTC

Explosion Proof Indicator

EXI-600AD

- Weighing Indicator for Hazardous area (Zone 1, 2 & 21, 22)
II 2G Ex d IIB+H2 T6 Gb for gases
II 2D Ex tb IIIC T80°C Db for dusts
- ATEX & KCS approved
- Front opening structure
- A/D sampling rate : 200times/sec
- Resolution : 1/10,000
- 4.3" Graphic LCD
- Touch keypad
- A variety of interfaces



OPTION > Analog out > Ethernet > BCD In/Out > External 4In/6Output
> External 6In/8Output

APPLICATION > Explosion-proof type platform scale > Explosive material weighing

Remote Display

CD-3000 Series

- High-resolution display
- Size: 2,3,4 (inch)
- 5 digits LED I Zero, tare, stable lamp
- RS-232C & current loop auto setting

APPLICATION > Truck scale



Weight Transmitter

WTM-200/WTM-500

- 7-Segment 6 digits LED display (height : 8mm)
- Slim and small structure
- Easy setup by using 4 keys (only for WTM-500/501)
- Easy setup of parameter and weighing data analysis via PC software
- High resolution 1/10,000
- High A/D conversion speed : 5~1,600 times/sec
- Theoretic calibration
- Multi point calibration
- Various interfaces



Model		WTM-200	WTM-201	WTM-500	WTM-501
Display & Key		-	-	7 segment 6 digits LED (Height : 8mm), 4 function keys	
Power		10 - 24VDC			
Excitation Voltage		5VDC			
External Resolution(OIML)		1/10,000			
A/D Converting Speed		5~1,600 times / sec			
Load Cell Connection		4-wire or 6-wire(Connection No. 8 at 350ohm)			
Calibration	Through PC Software	☐	☐	☐	☐
	Through Key	☐	☐	☐	☐
Operating Temperature		-10 ~ 40℃			
Interface	RS-485	☐	☐	☐	☐
	Analog Output (0~20mA, 0~24mA, 4~20mA, 0~10V, 0~5V, ±5V, ±10V)	☐	☐	☐	☐
	External I/O(In/ Out : 2/4ea)	☐	☐	☐	☐
Product Size(W×D×H)		103 x 126 x 40 mm			
Options		External 2In/4Output, Analog output, Alibi memory, Ethernet			



▶ WTM-200/201



▶ WTM-500/501



Single Point Load Cell



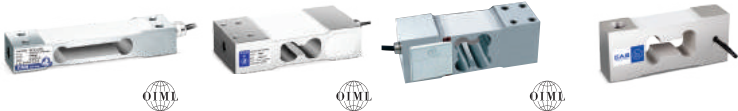
Model	BC		BC-D		BCL (1-5 kgf)		BCL (6-50 kgf)		BCL (60-200 kgf)	
Rated Capacity (kgf)	3, 5, 6, 12, 15, 30, 50		30, 60, 150, 200, 300		1, 2, 3, 5		6, 10, 15, 20, 30, 35, 50		60, 100, 150, 200	
Accuracy Class	-		-		-		C3	-	-	
Combined Error (% R.O)	≤0.03		≤0.03		≤0.03		≤0.025	≤0.03	≤0.03	
Creep for 30 min. (% R.O)	≤0.03		≤0.03		≤0.03		≤0.017	≤0.03	≤0.03	
Excitation	Recommended (V)		10		10		10		10	
	Maximum (V)		15		15		15		15	
Compensated Temperature Range (°C)	-10~+40		-10~+40		-10~+40		-10~+40		-10~+40	
Operating Temperature Range (°C)	-30~+80		-30~+80		-30~+80		-30~+80		-30~+80	
Material & Plate	Aluminum		Aluminum		Aluminum		Aluminum		Aluminum	

Single Point Load Cell



Model	BCA		BCD		BCM		BCH		BCK	
Rated Capacity (kgf)	5, 6, 10, 15, 20, 30, 50, 60, 75, 100		30, 50, 75, 100, 150, 250, 300, 500		50, 75, 100, 150, 200, 250, 300, 500, 750		500, 1K, 1.5K, 2K, 2.5K		1, 2, 5, 10, 25, 50	
Accuracy Class	C3	-	-		C3	-	-		-	
Combined Error (% R.O)	≤0.02	≤0.03	≤0.03		≤0.02	≤0.03	≤0.03		≤0.05	
Creep for 30 min. (% R.O)	≤0.017	≤0.03	≤0.03		≤0.017	≤0.03	≤0.03		≤0.01	
Excitation	Recommended (V)		10		10		10		10	
	Maximum (V)		15		15		15		15	
Compensated Temperature Range (°C)	-10~+40		-10~+40		-10~+40		-10~+40		-10~+40	
Operating Temperature Range (°C)	-30~+80		-30~+80		-30~+80		-30~+80		-30~+80	
Material & Plate	Aluminum		Aluminum		Aluminum		Aluminum		Aluminum	

Single Point Load Cell



Model		BCLS (10~50 kgf)			BCLS (60~150 kgf)		BCO		BC-P
Rated Capacity (kgf)		10, 15, 20, 30, 50			60, 150		60, 150, 200		150, 300, 500
Accuracy Class		C4	C3	-	C3	-	C3	-	-
Combined Error (% R.O)		≤0.015	≤0.025	≤0.03	≤0.025	≤0.03	≤0.025	≤0.03	≤0.03
Creep for 30 min. (% R.O)		≤0.015	≤0.017	≤0.03	≤0.017	≤0.03	≤0.017	≤0.03	≤0.03
Excitation	Recommended (V)	10			10		10		10
	Maximum (V)	15			15		15		15
Compensated Temperature Range (°C)		-10~+40			-10~+40		-10~+40		-10~+40
Operating Temperature Range (°C)		-30~+80			-30~+80		-30~+80		-30~+80
Material & Plate		Stainless Steel			Stainless Steel		Aluminum		Aluminum

Single Point Load Cell



Model		BC-F		BCP	BCW		BCC
Rated Capacity (kgf)		200, 300, 400, 600, 700, 1000		50, 100, 200	60, 70, 150, 180		10, 15
Accuracy Class		C3	-	-	C3	-	-
Combined Error (% R.O)		≤0.025	≤0.03	≤0.03	≤0.025	≤0.03	≤0.03
Creep for 30 min. (% R.O)		≤0.017	≤0.03	≤0.03	≤0.017	≤0.03	≤0.03
Excitation	Recommended (V)	10		10	10		10
	Maximum (V)	15		15	15		15
Compensated Temperature Range (°C)		-10~+40		-10~+40	-10~+40		-10~+40
Operating Temperature Range (°C)		-30~+80		-30~+80	-30~+80		-30~+80
Material & Plate		Aluminum		Aluminum	Aluminum		Aluminum

Single Ended Beam Load Cell



Model		BSA		BSB	BSS	
Rated Capacity (kgf)		250, 500, 1K, 2K, 3K, 5K		250, 500, 1K, 2K, 3K, 5K, 10K	500, 1K, 2K, 3K, 5K	
Accuracy Class		C3	-	-	C3	-
Combined Error (% R.O)		≤0.025	≤0.03	≤0.03	≤0.025	≤0.03
Creep for 30 min. (% R.O)		≤0.017	≤0.03	≤0.03	≤0.017	≤0.03
Excitation	Recommended (V)	10		10	10	
	Maximum (V)	15		15	15	
Compensated Temperature Range (°C)		-10~+40		-10~+40	-10~+40	
Operating Temperature Range (°C)		-30~+80		-30~+80	-30~+80	
Material & Plate		Steel		Steel	Stainless Steel	

Single Ended Beam Load Cell



Model		BS	HBS		ZBSHR
Rated Capacity (kgf)		250, 500, 1K, 2K, 5K, 10K	1, 20, 50, 100, 200, 250, 500, 1K, 2K		1K
Accuracy Class		-	C3	-	-
Combined Error (% R.O)		≤0.03	≤0.02	≤0.03	≤0.03
Creep for 30 min. (% R.O)		≤0.03	≤0.017	≤0.03	≤0.03
Excitation	Recommended (V)	10	10		10
	Maximum (V)	15	15		15
Compensated Temperature Range (°C)		-10~+40	-10~+40		-10~+40
Operating Temperature Range (°C)		-30~+80	-30~+80		-30~+80
Material & Plate		Steel	Stainless Steel		Stainless Steel

S-Beam Load Cell



Model		SB	SBA	SBS	SBAS	SL
Rated Capacity (kgf)		20, 50, 75, 100, 200, 250, 500, 1K, 2K	25, 500, 100, 200, 500, 1K, 2K, 3K, 5K	500, 1K, 2K, 5K	10	2K, 5K
Accuracy Class		-	C3	-	-	-
Combined Error (% R.O)		≤0.03	≤0.02 ≤0.03	≤0.05	≤0.05	≤0.05
Creep for 30 min. (% R.O)		≤0.03	≤0.017 ≤0.03	≤0.03	≤0.03	≤0.05
Excitation	Recommended (V)	10	10	10	10	10
	Maximum (V)	15	15	15	15	15
Compensated Temperature Range (°C)		-10~+40	-10~+40	-10~+40	-10~+40	-10~+40
Operating Temperature Range (°C)		-30~+80	-30~+80	-30~+80	-30~+80	-30~+80
Material & Plate		Aluminum Steel	Steel	Stainless Steel	Aluminum	Steel

Disk Type Load Cell



Model		LS	LSC	LSS	LSB	LSW
Rated Capacity (tf)		1, 2, 3, 5, 10, 20, 30, 50, 100, 200, 300	2, 5, 10, 20, 50, 100	1, 2, 3, 5, 10, 20, 30, 50	10, 20, 30	1, 2, 3, 5
Accuracy Class		A B	-	-	-	-
Combined Error (% R.O)		≤0.02 ≤0.05	≤0.05	≤0.03	≤0.03	≤0.05
Creep for 30 min. (% R.O)		≤0.03 ≤0.03	≤0.03	≤0.03	≤0.03	≤0.03
Excitation	Recommended (V)	10	10	10	10	10
	Maximum (V)	15	15	15	15	15
Compensated Temperature Range (°C)		-10~+40	-10~+40	-10~+40	-10~+40	-10~+40
Operating Temperature Range (°C)		-30~+80	-30~+80	-30~+80	-30~+80	-30~+80
Material & Plate		Steel / Coating	Steel / Coating	Stainless Steel	Steel	Steel / Coating

Disk Type Load Cell



Model		LSW-HM	MNC	MNT	NMNC	SMN
Rated Capacity (kgf)		3.5K	50, 100, 200, 500, 1K, 2K, 5K, 10K, 20K	50, 100, 200, 500, 1K, 2K	50, 100, 200, 500, 1K, 2K, 3K	1, 2, 10, 20, 30, 50, 100, 200, 300, 500, 1K, 2K
Accuracy Class		-	-	-	-	-
Combined Error (% R.O)		≤0.10	≤0.15	≤0.15	≤0.5	≤2.0
Creep for 30 min. (% R.O)		≤0.03	≤0.03	≤0.1	≤0.5	≤1.0
Excitation	Recommended (V)	10	10	10	10	10
	Maximum (V)	15	15	15	15	15
Compensated Temperature Range (°C)		-10~+40	-10~+40	-10~+40	-10~+40	-10~+40
Operating Temperature Range(°C)		-30~+80	-30~+80	-30~+80	-30~+80	-30~+80
Material & Plate		Steel / Coating	Stainless Steel (50 kgf~2tf) Steel (5~20tf)	Stainless Steel	Stainless Steel	Aluminum (1~5 kgf) Stainless Steel (10 kgf~2tf)

Disk Type Load Cell



Model		CPA	CPAS	LSOC	LSOC2
Rated Capacity (kgf)		500, 1K, 2K, 3K, 5K	3K	5K	5K
Accuracy Class		-	-	-	-
Combined Error (% R.O)		≤0.15	≤0.3	≤0.1	≤0.1
Creep for 30 min. (% R.O)		≤0.03	≤0.03	≤0.01	≤0.01
Excitation	Recommended (V)	10	10	10	10
	Maximum (V)	15	15	15	15
Compensated Temperature Range (°C)		-10~+40	-10~+40	-10~+40	-10~+40
Operating Temperature Range (°C)		-30~+80	-30~+80	-30~+80	-30~+80
Material & Plate		Steel	Steel	Steel / Coating	Steel Electroless Nickel Plating

Disk Type Load Cell



Model		CHE	CHE-KM	ZWIT-15T	ZWITA-15T
Rated Capacity (tf)		20, 50, 100, 150, 200	6, 10, 20, 30	15	15
Accuracy Class		-	-	-	-
Combined Error (% R.O)		≤0.1	≤1.0	≤0.5	≤0.5
Creep for 30 min. (% R.O)		≤0.03	≤0.015	≤0.5	≤0.5
Excitation	Recommended (V)	10	10	10	10
	Maximum (V)	15	15	15	15
Compensated Temperature Range (°C)		-10~+40	-10~+40	-10~+40	-10~+40
Operating Temperature Range (°C)		-30~+80	-30~+80	-20~+70	-20~+70
Material & Plate		Load Cell: Steel / Electroless Nickel Plating Housing: Steel/Powder Coating	Load Cell: Steel / Electroless Nickel Plating Housing: Steel/Powder Coating	Steel	Steel

Double Ended Beam Load Cell



Model		DSB-20	DSB-B	DES-B	DSBV
Rated Capacity (tf)		20	10, 20, 30	5, 10, 15, 20	1, 2, 3, 5, 10
Accuracy Class		-	-	-	-
Combined Error (% R.O)		≤0.03	≤0.03	≤0.03	≤0.5
Creep for 30 min. (% R.O)		≤0.03	≤0.03	≤0.03	≤0.3
Excitation	Recommended (V)	10	10	10	10
	Maximum (V)	15	15	15	15
Compensated Temperature Range (°C)		-10~+40	-10~+40	-10~+40	-10~+40
Operating Temperature Range (°C)		-30~+80	-30~+80	-30~+80	-30~+80
Material & Plate		Steel	Steel / Coating	Steel	Steel

Double Ended Beam Load Cell



Model		DSB1	DSB2	DSBT (0.5 tf-10tf)
Rated Capacity (kgf)		10, 20, 25, 50, 60, 75 (klb)	10, 20, 30(klb)	0.5K, 1.5K, 3K, 5K, 10K
Accuracy Class		IIIL	-	-
Combined Error (% R.O)		≤0.03	≤0.03	≤0.1
Creep for 30 min. (% R.O)		≤0.02	≤0.02	≤0.03
Excitation	Recommended (V)	10	10	10
	Maximum (V)	15	15	15
Compensated Temperature Range (°C)		-10~+40	-10~+40	-10~+40
Operating Temperature Range (°C)		-30~+80	-30~+80	-30~+80
Material & Plate		Steel	Steel	Steel

Canister Load Cell



Model		CC / CT	CTS	HC	HCS
Rated Capacity (kgf)		20, 50, 100, 200, 300, 500, 1K, 2K, 3K, 5K, 10K, 20K	200, 500, 1K, 2K, 3K, 5K	20K, 30K, 50K, 100K, 200K	100K, 200K, 300K
Accuracy Class		A	A	-	-
Combined Error (% R.O)		≤0.02	≤0.02	≤0.15	≤0.15
Creep for 30 min. (% R.O)		≤0.03	≤0.03	≤0.03	≤0.05
Excitation	Recommended (V)	10	10	10	10
	Maximum (V)	15	15	15	15
Compensated Temperature Range (°C)		-10~+40	-10~+40	-10~+40	-10~+40
Operating Temperature Range (°C)		-30~+80	-30~+80	-30~+80	-30~+80
Material & Plate		Steel / Coating	Stainless Steel	Steel / Coating	Stainless Steel

Canister
Load Cell



Model		WBK		NWBK		WBKL		WBKC	
Rated Capacity (tf)		10, 20, 25, 30, 50, 100		10, 25, 30		10, 20, 25, 30, 50, 100		10, 20, 25, 30	
Accuracy Class		C3	-	A	B	A	B	C3	-
Combined Error (% R.O)		≤0.02	≤0.03	≤0.02	≤0.03	≤0.02	≤0.03	≤0.2	≤0.03
Creep for 30 min. (% R.O)		≤0.017	≤0.03	≤0.017	≤0.03	≤0.017	≤0.03	≤0.017	≤0.03
Excitation	Recommended (V)	10		10		10		10	
	Maximum (V)	15		15		15		15	
Compensated Temperature Range (°C)		-10~+40		-10~+40		-10~+40		-10~+40	
Operating Temperature Range (°C)		-40~+80		-40~+80		-40~+80		-30~+80	
Material & Plate		Stainless Steel		Stainless Steel / Coating		Stainless Steel		Stainless Steel	

Explosion
Proof
Load Cell **EXP**



10-50 kgf



100-300 kgf



Model		BCA-EXP		BCD-EXP		BCEPL-EXP		BCEP-EXP	
Rated Capacity (kgf)		5, 6, 10, 15, 20, 30, 50, 60, 75, 100		75, 100, 150, 250, 300, 500		10, 20, 50, 100		100, 200, 300	
Accuracy Class		A	B	-		-		A	B
Combined Error (% R.O)		≤0.02	≤0.03	≤0.03		≤0.03		≤0.2	≤0.03
Creep for 30 min. (% R.O)		≤0.017	≤0.03	≤0.03		≤0.03		≤0.017	≤0.03
Excitation	Recommended (V)	10		10		10		10	
	Maximum (V)	28		28		15		15 / 28	
Compensated Temperature Range (°C)		-10~+40		-10~+40		-10~+40		-10~+40	
Operating Temperature Range (°C)		-30~+80		-30~+80		-30~+80		-30~+80	
Material & Plate		Aluminum		Aluminum		Stainless Steel		Stainless Steel	
EXP	EXP Class	Ex ia IIC T4		Ex ia IIC T4		Ex ia IIC T4		Ex ia IIC T4	
	Capacity (kgf)	5, 6, 10, 15, 20, 30, 50, 60, 75, 100		75, 100, 150, 250, 300, 500		10, 20, 50, 100		100, 200, 300	
EXP-D	EXP Class	-		-		Ex db IIC T6 Gb		Ex d IIC T4	
	Capacity (kgf)	-		-		10, 20, 50, 100		100, 200, 300	
EXP-TD	EXP Class	-		-		Ex tD A21 T85°C IP68		Ex tD A21 T135°C IP66	
	Capacity (kgf)	-		-		10, 20, 50, 100		100, 200, 300	

Explosion Proof Load Cell EXP



Model		BSS-EXP		HBS-EXP		LS-EXP		LSS-EXP	
Rated Capacity (kgf)		500, 1K, 2K, 3K, 5K		10, 20, 50, 100, 200, 250, 500		1K, 2K, 3K, 5K, 10K, 20K, 30K, 50K, 100K, 200K, 300K		1K, 2K, 3K, 5K, 10K, 20K, 30K, 50K	
Accuracy Class		A	B	A	B	A	B	-	
Combined Error (% R.O)		≤0.025	≤0.03	≤0.02	≤0.03	≤0.02	≤0.05	≤0.03	
Creep for 30 min. (% R.O)		≤0.017	≤0.03	≤0.017	≤0.03	≤0.03	≤0.03	≤0.03	
Excitation	Recommended (V)	10		10		10		10	
	Maximum (V)	28		28		28		28	
Compensated Temperature Range (°C)		-10~+40		-10~+40		-10~+40		-10~+40	
Operating Temperature Range (°C)		-30~+80		-30~+80		-30~+80		-30~+80	
Material & Plate		Stainless Steel		Stainless Steel		Steel / Coating		Stainless Steel	
EXP	EXP Class	Ex ia IIC T4		Ex ia IIC T4		Ex ia IIC T4		Ex ia IIC T4	
	Capacity (kgf)	500, 1K, 2K, 3K, 5K		10, 20, 50, 100, 200, 250, 500		1K, 2K, 3K, 5K, 10K, 20K, 30K, 50K, 100K, 200K, 300K		1K, 2K, 3K, 5K, 10K, 20K, 30K, 50K	
EXP-D	EXP Class	Ex d IIC T6		Ex d IIC T6		Ex d IIC T4		Ex d IIC T4	
	Capacity (kgf)	500, 1K, 2K, 3K, 5K		10, 20, 50, 100, 200, 250, 500		1K, 2K, 3K, 5K, 10K, 20K, 30K, 50K		1K, 2K, 3K, 5K, 10K, 20K, 30K, 50K	
EXP-TD	EXP Class	Ex tD A21 T135°C IP66		Ex tD A21 T85°C		Ex tD A21 T135°C IP68		Ex tD A21 T135°C IP68	
	Capacity (kgf)	500, 1K, 2K, 3K, 5K		10, 20, 50, 100, 200, 250, 500		1K, 2K, 3K, 5K, 10K, 20K, 30K, 50K		1K, 2K, 3K, 5K, 10K, 20K, 30K, 50K	

Explosion Proof Load Cell EXP



Model		SBS-EXP		CTS-EXP		HCS-EXP		WBK-EXP	
Rated Capacity (kgf)		500, 1K, 2K, 5K		200, 300, 500, 1K, 2K, 3K, 5K		100K, 200K, 300K		10K, 20K, 30K, 50K, 100K	
Accuracy Class		-		A	B	-		A	B
Combined Error (% R.O)		≤0.05		≤0.02	≤0.05	≤0.05		≤0.02	≤0.03
Creep for 30 min. (% R.O)		≤0.03		≤0.03	≤0.03	≤0.05		≤0.017	≤0.03
Excitation	Recommended (V)	10		10		10		10	
	Maximum (V)	28		28		28		28	
Compensated Temperature Range (°C)		-10~+40		-10~+40		-10~+40		-10~+40	
Operating Temperature Range (°C)		-30~+80		-30~+80		-30~+80		-30~+80	
Material & Plate		Stainless Steel		Stainless Steel		Steel / Coating		Stainless Steel	
EXP	EXP Class	Ex ia IIC T4		Ex ia IIC T4		-		Ex ia IIC T4	
	Capacity (kgf)	500, 1K, 2K, 5K		500, 1K, 2K, 3K, 5K		-		10K, 20K, 30K, 50K, 100K	
EXP-D	EXP Class	Ex d IIC T4		Ex ia IIC T4		Ex d IIC T6		Ex d IIC T4	
	Capacity (kgf)	500, 1K, 2K, 5K		200, 300, 500, 1K, 2K, 3K, 5K		100K, 200K, 300K		10K, 20K, 30K, 50K, 100K	
EXP-TD	EXP Class	Ex tD A21 T135°C IP66		Ex tD A21 T135°C IP68		Ex tD A21 T135°C IP68		Ex tD A21 T135°C IP68	
	Capacity (kgf)	500, 1K, 2K, 5K		200, 300, 500, 1K, 2K, 3K, 5K		100K, 200K, 300K		10K, 20K, 30K, 50K, 100K	

Digital Load Cell **DLC**



Model		LS-D	HC-D	DSB-D	WBK-D
Rated Capacity (tf)		20K,30K,100K,200K,300K	20K,30K,50K,100K,200K	10K,20K,25K,30K	10K,20K,25K,30K
Accuracy Class		-	-	-	C4
Combined Error (% R.O)		≤0.015	≤0.015	≤0.015	≤0.015
Creep for 30 min. (% R.O)		≤0.017	≤0.017	≤0.017	≤0.017
Excitation	Recommended (V)	9	9	9	9
	Maximum (V)	24	24	24	24
Compensated Temperature Range (°C)		-10~+40	-10~+40	-10~+40	-10~+40
Operating Temperature Range (°C)		-40~+80	-40~+80	-40~+80	-40~+80
Material & Plate		Steel / Coating	Steel / Coating	Steel	Stainless Steel
Indicator		CI-600D	CI-600D	CI-600D	CI-600D

Noise Resistance Load Cell **NR**



Model		LS-NR	HC-NR	CC/CT-NR		HC-NT	WBK-NR
Rated Capacity (tf)		1K,2K,3K,5K,10K,20K,30K,50K,100K,200K,300K	1K,2K,3K,5K,10K,20K,50K	20,50,100,200,300,500 1K,2K,3K,5K,10K,20K		20K,30K,50K,100K,200K	10K,20K,25K,30K,50K,100K
Accuracy Class		-	-	A	B	-	-
Combined Error (% R.O)		≤0.02	≤0.03	≤0.02	≤0.05	≤0.15	≤0.02
Creep for 30 min. (% R.O)		≤0.03	≤0.03	≤0.03	≤0.03	≤0.03	≤0.017
Excitation	Recommended (V)	10	10	10		10	10
	Maximum (V)	15	15	15		15	15
Compensated Temperature Range (°C)		-10 ~ +40	-10 ~ +40	-10 ~ +40		-10 ~ +40	-10 ~ +40
Operating Temperature Range (°C)		-30 ~ +80	-30 ~ +80	-30 ~ +80		-30 ~ +80	-40 ~ +80
Material & Plate		Steel / Coating	Stainless Steel	Steel / Coating		Steel / Coating	Stainless Steel

Platform Type Load Cell



Model		SPL	EPL
Rated Capacity (tf)		50,60,100,200,300,400	100,200
Combined Error (% R.O)		≤0.05	0.1
Creep for 30 min. (% R.O)		≤0.03	0.06
Excitation	Recommended (V)	10	10
	Maximum (V)	15	15
Compensated Temperature Range (°C)		-10 ~ +40	-10 ~ +40
Operating Temperature Range (°C)		-10 ~ +40	-10 ~ +40
Material & Plate		Steel (Plate) Stainless Steel (Cover)	Aluminum (Plate) Stainless Steel (Cover)

Multi-Axis Load Cell



Model		MAS (2,3)	MAS (5,6)
Rated Capacity (tf)		2,5,10,20,50	2,5,10,20,50
Combined Error (% R.O)		≤0.5% FS for each component force	≤0.5% FS for each component force
Creep for 30 min. (% R.O)		-	-
Excitation	Recommended (V)	10	10
	Maximum (V)	15	15
Compensated Temperature Range (°C)		-	-
Operating Temperature Range (°C)		-	-
Material & Plate		Aluminum	Aluminum

CAS Label Printer



Model	BP-1100 ^{PLUS}	CLK-B10/B20	CLK-T41
Print Method	Direct thermal / Thermal Transfer	Direct thermal / Thermal Transfer	Direct thermal
Print Speed	100 mm/sec	102 or 152 mm/sec	140 mm/sec
Resolution	203dpi	203dpi	203dpi
Print Width	108 mm	104 mm	56 mm
Paper Width	118 mm	18-118 mm	59 mm
Roll Diameter	127 mm	127/200 mm	60 mm
Dimension (W x D x H)	226 x 285 x 171 mm	215 x 287 x 231 mm	119 x 181 x 106 mm
Weight	2.72 kg	3.6 kg	1.7 kg
Power	AC100-240V / 50-60Hz	AC100-240V / DC24V 2.5A / 24V 2.92A	AC100-240V / DC24V 2.5A
Memory	Flash 4MB, SDRAM 8MB	Flash 2.5/ 5MB/ SDRAM 8MB	Flash 2MB
Interface	Serial, Parallel, USB	Serial, Parallel, USB	-



DEP-50



DLP-50



Model	DEP/DLP-50	CP-7020	CP-7100	CP-7200
Print Method	Direct thermal	Dot / Thermal	Dot / Thermal	Dot / Thermal
Print Speed	50 mm/sec	46CPS	25 mm/sec	25 mm/sec
Resolution	203dpi	-	-	-
Print Width	48 mm	40,30 COLUMNS	40,36,30,24 COLUMNS	24 COLUMNS
Paper Width	-	57 mm	57 mm	57 mm
Roll Diameter	-	50 mm	50 mm	50 mm
Dimension (W x D x H)	106 x 180 x 88 mm	175 x 165 x 105 mm	122 x 79 x 135 mm	110 x 167 x 87 mm
Weight	0.4 kg	2 kg	0.56 kg	0.53 kg
Power	DC 12V	AC100-240V	DC12V 1.6A / DC5V 2.5A	DC12V 1.6A / DC5V 2.5A
Memory	-	SDRM 8MB	-	-
Interface	Serial	Serial	Serial, Parallel	Serial, Parallel



Model	B-EV4D	B-452
Print Method	Direct thermal	Direct thermal / Thermal transfer
Print Speed	Max127.0 mm/sec	50.8-101.6 mm (2-4")
Resolution	200 dpi	300dpi
Print Width	108 mm	50.8~101.6(2-4") mm
Memory	Flash ROM 4MB, DRAM 8MB	Flash ROM 16MB, D-RAM 16MB
Interface	Serial, Parallel, USB, LAN	Parallel, USB, LAN (Serial)
Options	B-EV204-F-QM-R (Swing cutter module) B-EV904-H-QM-R (Strip module)	B-7204-QM (Cutter module) B-7904-H-QM (Strip module) B-7704-RS-QM (Serial interface board)



Model	B-SA4TM-GS12	B-SA4TM-TS12	B-SX4T	B-SX5T
Print Method	Direct thermal / Thermal transfer		Direct thermal / Thermal transfer	
Print Speed	50.8-152.4 (2-6") mm/sec		76.2-254 (3-10") mm/sec	76.2-203.2 (3-8") mm/sec
Resolution	203 dpi	300 dpi	203 dpi	306 dpi
Print Width	104 mm	105.7 mm	104 mm	127.5 mm
Memory	Flash ROM 16MB, D-RAM 16MB		Flash ROM 4MB, DRAM 8MB	Flash ROM 4MB DRAM 16MB
Interface	USB, Parallel, LAN (*serial, W-LAN)		serial, Parallel, Expansion I/O(*USB, LAN)	
Options	B-SA204-QM-R (Cutter module) B-SV904-H-QM-R (Strip module) B-SA704-RS-QM-R (Serial interface board) B-SA704-WLAN-QM (Wireless LAN board)		B-4205-QM (Swing cutter module) B-8204-QM (Rotary cutter module) B-9904-H-QM (Strip module) B-9700-PCM-QM (PCMCIA Interface board) B-9700-LAN-QM (LAN Interface board) B-9700-USB-QM (USB Interface board)	

CAS Software

Software Mart System

- Supports mart system in a varied form:
headquarter integrated system, store-unit system, etc.
- Customizable to each mart system

Model	DEP-50
Supported Devices	Label printing scales
Supported Operating Systems	Windows, Unix
Communication Condition	TCP/IP



Software CL-Works Pro

- Manages information – scale's PLU, store information, keypad, etc.
- Sends scale data through a network at a time
- Saves and prints account details in database

Model	CL-Works
Supported Devices	CL3000, CL5000, CL5000J, CL5200, CL5200N, CL5200J, CL5500, CL7200, CL8000, CN1
Supported Operating Systems	Windows
Communication Condition	RS-232C, TCP/IP



Software ES-Works

- ERPLUS, EB PLU management function
- Support PLU Excel Import/Export • Login function
- Weight value handling function (IM-Works) by interlocking PC

Model	ES-Works
Supported Devices	ER ^{PLUS} , EB
Supported Operating Systems	Windows, Unix
Communication Condition	RS-232C



Software

iM-Works Pro

- Weighing data management by connecting scale and PC
- Saves and opens weighing data
- Prints weighing data by connecting various label printers (Only for iM-Works Pro)
- Export data as a excel file
- User account management

Model	iM-Works
Supported Devices	Indicator, DB-II, ER Plus, EB, SW, MWP, ED-H, EC, AD, CUX/CUV, XB, TW-100, X320, CCK5500, MW-IN, EC-D, XE, (Support printer: TOSHIBA TEC, DLP, BP Series)
Supported Operating Systems	Windows XP
Communication Condition	RS-232C

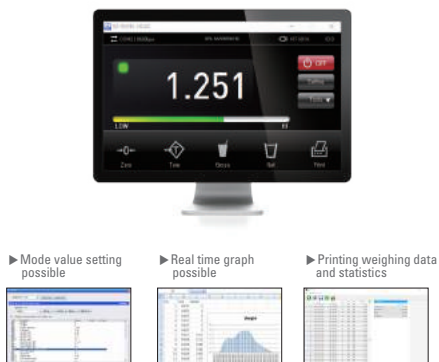


Software

ID-Works

- Only for Indicator
- Indicator mode value set-up function (more than 70 value set-up possible: date, time, weight, conversion speed)
- Weighing value by using flash animation
- Supports real time graph and saving function
- Simple to save and call items

Model	ID-Works
Supported Devices	Indicator (Supports some functions of NT-500, NT-570, CI-8000. Only in case, ROM is fully updated)
Supported Operating Systems	Windows XP
Communication Condition	RS-232C



Software

NT-Works

- Communication with several indicators available (1 through 15 user random choose available)
- Pass / fail fuction by setting upper and lower limit
- Each weighing result is saved in excel

Model	NT-Works
Supported Devices	CAS Indicator (Maximum of 15 connections)
Supported Operating Systems	Windows XP
Communication Condition	RS-232C



Software

RW-Works

- Truck overload controlling program
- Weighing each axis, up to 8 axis.
- Issue ticket print linkage weighing information
- Weighing breakdown database saving search function

Model	RW-Works
Supported Devices	RW2601P
Supported Operating Systems	Windows XP
Communication Condition	RS-232C



▶ Connected to RW-2601P

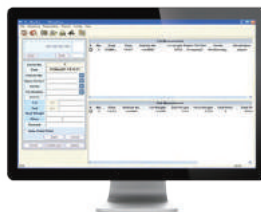


Software

TS-Works

- PC program for truck scale
- Issue ticket print linkage weighing information
- Customers & products register function
- Certification issue function
- Function which is available to report by date, vehicle, customer and product

Model	TS-Works
Supported Devices	RW2601P, Indicator
Supported Operating Systems	Windows XP
Communication Condition	RS-232C



▶ Search data



▶ View reports



Software

DP-Works

- Server configuration with client
- Sends production activities of multiple clients to server with weight
- Manages data received in database
- Supports external display
- Indicates status and ranking

Model	DP-Works
Supported Devices	CAS Indicator
Supported Operating Systems	Windows XP
Communication Condition	RS-232C, TCP/IP



▶ Screen shot of ranking data list



Software

BK-Works

- Combines user's favorable functions to compose a program (Widgets on dashboard)
- Provides widget with diverse functions
- Measures list, logo, user account, graph, print-out, etc.

Model	BK-Works
Supported Devices	CAS Indicator, CAS Balance
Supported Operating Systems	Windows 7
Communication Condition	RS-232C, TCP/IP



► Background image applicable



► Providing widget with a diverse function



Software

SC-Works

- Checks the bound-pair of weight data and managing the data
- Supports for connections up to 24
- Supports various communication methods :
1:1 connection, 1:N connection (Command Type)
- Output for each equipment: maximum, minimum, mean, standard deviation, upper/lowest number, normal number

Model	SC-Works
Supported Devices	CAS Indicator, CAS Balance
Supported Operating Systems	Windows XP
Communication Condition	RS-232C



► Screen shot of details of each device



Software

GP-Works

- Finds weight data progress in a graph form
- Supports up to 8 connections
- Output for each equipment – maximum, minimum, mean, standard deviation
- Customized (individually) setting for chart type and color

Model	GP-Works
Supported Devices	CAS Indicator, CAS Balance
Supported Operating Systems	Windows XP
Communication Condition	RS-232C



► Dual View

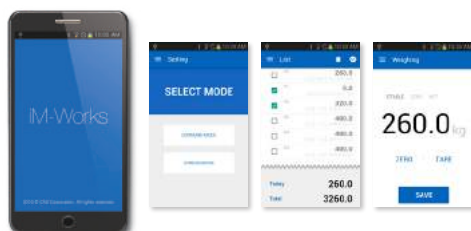


Software

iM-Works for Android

- Displays device code of industrial bluetooth
- Data sharing by email after saving data and exporting CSV
- Disconnect the TWN from the scale in order to use (Automatically disconnected while moving the scale) type and color

Model	iM-Works for android
Supported Devices	CASION, TM
Supported Operating Systems	Android 4.1.2
Communication Condition	RS-232C



Software

MixPlus

- Ingredient mixing program
- Manages ingredients information DB
- Check and save measurement data
- Data backup and restore function

Model	MixPlus
Supported Devices	CAS Indicator
Supported Operating Systems	Windows XP
Communication Condition	RS-232C



Software

COG

- Weighing 1~16 points
- Calculates center of the material by measuring weights
- Save weighing data to access data
- Exports data to excel sheet

Model	COG
Supported Devices	Custom-made product
Supported Operating Systems	Windows XP
Communication Condition	Zigbee



The background of the advertisement features a blurred industrial setting. On the left, a large, grey robotic arm is positioned over a work area. In the center, a laboratory flask is being filled with a liquid. On the right, a computer monitor displays a software interface with a circular gauge. In the foreground, a white digital thermometer with a touchscreen interface is shown, partially submerged in a beaker of blue liquid. The thermometer's screen displays various icons and data. The beaker has a scale on its side.

MEASURING INSTRUMENT SOLUTION

CAS Galileo, CAS's brand specializing in precision instruments, seeks comprehensive precision measurement solutions around the world. We are working with famous instrument brands around the world to provide convenience with more diverse products.



Advanced Viscometer CL-L3

Various speeds (0.1 to 100 rpm/ 0.1 unit) can be set

Maximum measuring range can be set quickly through a combination of spindle and rotational speed

Printer connection, software included (DV-Works, analysis software)

When exceeding the range, alarm sounds

Easy operation, rich information display

Static electricity resistant housing design



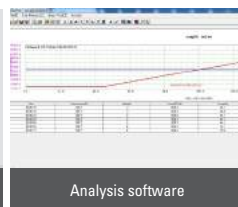
■ FEATURE



7" full color touch screen display



Spindle set /
RTD temperature probe



Analysis software

■ SPECIFICATION

Model	CL-L3
Display	7" full color touch screen display
Basic Display Function	Rotation speed, spindle number used, viscosity value (cP, mPa-s), ratio to full scale, temperature
Additional Functions	Data saving against sampling time, automatic time setting for printing, small size sample spindle kit additionally available(optional), measuring time setting
Number of Spindles	Default : No.1 to 4 (4 spindles)/ for 10cP or lower, No. 0 spindle (option)
Measuring Range	1~6,000,000 cP
Resolution	1cP
Spindle Speed	0.1 ~ 100 (0.1 unit)
Output	RS-232C, USB, LAN
Accuracy	± 1% (Newtonian fluid)
Reproducibility	± 0.2% (Newtonian fluid)
Temperature Range	0°C~ 100°C
Power	100~240V AC 50/60Hz
Product Size	400 X 350 X 360 (mm)
Weight	2kg / 7kg in case of including stand
Software	DV-Works (data logging with PC)

Entry Type Viscometer

CL-L1

- Basic traditional rotary viscometer
- Construction easy to operate, intuitive reading, high accuracy of $\pm 1\%$, stability
- Display: rotation speed, spindle number used, viscosity value (cP), % torque, temperature
- Latest 16-bit microprocessor
- Display the maximum measurable viscosity according to combination of spindle and rotational speed
- Printer connection, software included (DV-Works)
- Measurement mode according to time setting
- Output through RS-232C
- AC power adapter 100V-240V



General Type Viscometer

CL-L2 / R2 / HA2 / HB2

- High accuracy of $\pm 1\%$, $\pm 0.5\%$ of reproducibility, stability
- Consistent data can be ensured for thixotropic non-Newtonian fluids by instrument time settings.
- Rotary type viscometer of stepping motor subdivided into high-levels
- Intuitive button design allows to set up to 998 levels of rotational speeds (0.3 to 100 rpm)
- Simultaneously displays rotational speed, viscosity, time, temperature and maximum viscosity value at the current speed
- Printer can be connected. Software included (DV-Works)
- Latest 16-bit microprocessor
- AC power adapter 100V-220V and 50Hz/60Hz



Stormer's Viscometer for Paint and Coating

KU-2

- High accuracy of $\pm 1\%$, $\pm 0.5\%$ of reproducibility, stability
- Consistent data can be ensured for thixotropic non-Newtonian fluids by good instrument time settings.
- With user-friendly and personalized design, temperature and viscosity values can be displayed
- KU, cP, gm can be freely converted.
- With a manual lifting structure design, test level control requirements can be reduced.
- Latest 16-bit microprocessor
- Meets international standards ASTM, D562 and GB9269
- AC power adapter 100V-220V and 50Hz/60Hz



Entry Level Electronic Density Meter **CD-V1**

- Standard hydrometer
- Ease of use, Intuitive display
- Sturdy wind shield and aluminum determination kit
- Max. capacity: 610g / Resolution: 0.01g
- Density resolution: 0.01g / cm³
- Display: LCD display
- Density indication: Solid, liquid, powder, absorbent, gold
- RS-232C output
- Overload alert
- Power adapter: AC 110V-240V
- Connected to printer



Mid Level Electronic Density Meter **CD-V2**

- Standard hydrometer
- Ease of use, Intuitive display
- Sturdy wind shield and aluminum determination kit
- Max. capacity: 210g / Resolution: 0.001g
- Density resolution: 0.001g / cm³
- Display: LCD display
- Density Indication: Solid, liquid, powder, absorbent, gold
- RS-232C output
- Overload alert
- Power adapter: AC 110V-240V
- Connected to printer



Advanced Level Electronic Density Meter **CD-V3**

- Ease of use, Internal weight calibration system, fast response
- Automatic calibration by time setting
- Electro magnetic sensor, Intuitive display
- Sturdy wind shield and aluminum determination kit
- Max. capacity: 220g / Resolution: 0.0001g
- Selectable unit: g, mg
- Density resolution: 0.0001g / cm³
- Display: 5" touch screen with counting, % function
- Density indication : Solid, liquid
- RS-232C output
- Overload alert
- Power adapter: AC 110V-240V
- Connected to printer



Pocket pH Tester

PM-1

- Suitable for measuring the pH of aqueous solutions
- Accurate measuring by micro-processor
- Automatic temperature compensation within 0~60°C
- 2 points calibration with auto-buffer recognition
- Replaceable electrode module
- Auto Power-off function for saving battery
- Hold Function for easy writing and recording



Portable pH Meter

PM-2

- 1~3 points calibration with auto-buffer recognition for USA and NIST buffers
- Automatic electrode diagnosis
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint.
- Memory that stores up to 100 data sets



Benchtop pH Meter

PM-3

- 1~3 points calibration with auto-buffer recognition for USA and NIST buffers
- Automatic electrode diagnosis
- Automatic temperature compensation ensures accurate readings over the entire range
- Auto-Read function senses and locks the measurement endpoint.





World Class Weighing Solution **CAS**

In 1987, CAS started to export to Portugal and became a global brand through aggressive market expansion. CAS has become a global corporation by gaining weighing certificates of various countries and gaining dealers who have good partnership. CAS will support the customers' business through total weighing solutions and become customers' partner that customers recognize

Globalcas



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Specifications are subject to change without notice for improvement.





www.globalcas.com

LOAD CELL

Product Catalogue

| ENGLISH

- Single Point
- Single Ended Beam
- S-Beam
- Disk Type
- Double Ended Beam
- Canister
- Platform Type
- Special Type
- Weighing Indicator/Controller/Component

CAS

WE WEIGH THE WORLD™

Since its founding in 1983, CAS Corporation consistently aims at becoming a leader in the international weighing industry. By offering a variety of products and dedicated customer service. CAS rapidly developed its global network system. With a manufacturing facility and Headquarter located in South Korea.

CAS has expended its business territory further to United States, India, Russia, Türkiye and China including active sale performance in over 120 overseas countries. Our global network and cutting-edge technology will ensure total customer satisfaction.

- | | | | |
|------|--|------|--|
| 1983 | Establishment of CAS Co., Ltd. | 2007 | The second CAS Global Business Conference in Korea
Awarded the Global Star prize
Awarded the Techno CEO prize |
| 1989 | Acquired FCC US Official Standards | 2008 | The third CAS Global Business Conference in Korea
Acquired certificate of quality control system of medical instrument
Selected as a electric scale providing company in Chinese standardized market |
| 1990 | Acquired NSC Australian Measuring Verification Standards
Assigned as a National Verification and Correction Facility (177) | 2009 | Fourth CAS Global Business Conference in Korea
Establishment of CAS Zhejiang in China |
| 1991 | Acquired NBS US Measuring Verification Standards
Approved by NTEP & UL, US Safety Standards | 2011 | Acquired as Self-National verification & correction Facility from Korean Agency for Technology and Standard |
| 1992 | Developed strain gage / Establishment of CAS Türkiye
Developed the first label printer in the Korean market | 2012 | Establishment of CAS Japan |
| 1993 | Approved by CSA (Canada)
Establishment of CAS USA | 2013 | Nominated for WC300
Establishment of CAS Chemical
Establishment of CAS E&C |
| 1994 | Acquired the first OIML, EU Standards
Establishment of CAS China / Establishment of CAS Russia | 2014 | Chosen to execute 1 st year project for the World Class300
Designated as No.1 brand in Global Brand Competency Index(GBCI) |
| 1996 | Acquired the first ISO 9001 in the Korean weighing industry | 2015 | Chosen to execute 2 nd year project for the World Class300
Received 2015 Global Excellence Awards |
| 1999 | Establishment of CAS India
Acquired EC Self-Verification Certification | 2016 | Designated as No.1 brand in Global Customer Satisfaction Competency Index(GCSI) |
| 2000 | Awarded the Best Certification Company by ISO9000 | 2018 | Designated as No.1 brand in Global Brand Competency Index(GBCI) |
| 2001 | Awarded the Best Certification Company by ISO9000 for two consecutive years
Awarded the best prize for Precision technology
Acquired Japanese NMIJ Standards Certification
Establishment of CAS Vietnam | 2022 | Designated as No.1 brand in Global Customer Satisfaction Competency Index(GCSI)
Attending Eurocis 2022 düsseldorf, Germany
Establishment of CAS Mongolia |
| 2002 | Awarded the Best Global Company by Japanese Management Association
Awarded Russia Golden Balance 2002 | 2023 | 40th Year Since the Founding of CAS |
| 2003 | CAS Europe Tour | | |
| 2004 | Establishment of CAS Poland
Establishment of CAS Germany | | |
| 2005 | Granted 30 million dollar export Tower from the government
Establishment of CAS Bangladesh | | |
| 2006 | The first CAS Global Business Conference in Korea | | |



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Single Point Load Cell

BC / BC-D / BCL / BCA / BCA-EXP / BCD / BCD-EXP / BCM / BCH / BCK / BCLS / BCO / BC-P / BC-F
BCP / BCW / BCEP-EXP / BCEPL-EXP / BCC

CAS has advanced technology on weighing, measurement, and control.
We provide accurate and precise load cell to the various industries.



BC | Single Point Load Cell



Description

BC is a single point type load cell of aluminum material. It is suitable for medium sized commercial scales, bench scales, and counting scales.

Specifications

Capacity(R.L.)	kgf	3, 5, 6, 12, 15, 30, 50
Rated Output	mV / V	3 ~ 5kgf : 1.0 ± 0.1 / 6 ~ 50kgf : 1.2 ± 0.12
Zero Balance	mV / V	0.0 ± 0.06
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/3000
Division	mV / V	0.00033 (Approx.) / 0.0004 (Approx.)
Temperature Effect on	-Zero Value -Output Value	% / 10°C % / 10°C
		≤ 0.028 ≤ 0.014
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		420 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Aluminum
Cable Specification	-	Ø5 x 4p x 35cm (PVC)
Safety Overload	%R.L.	150
Platform Size	mm	400 x 400

Features

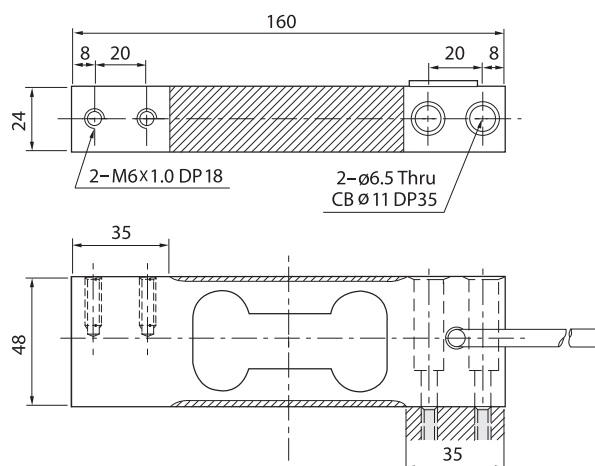
- Pressure type
- Designed according to IP65

Application

- Commercial Scale
- Bench Scale
- Counting Scale

Dimensions

► BC



BC-D | Single Point Load Cell



Features

- Pressure type
- Designed according to IP65

Application

- Commercial Scale
- Bench Scale
- Counting Scale

Description

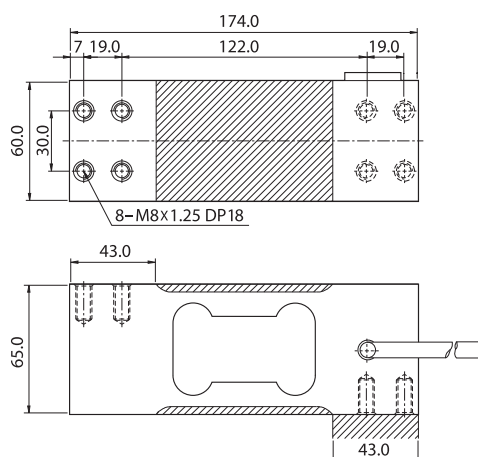
BC-D is a single point type load cell of aluminum material. It is suitable for large sized commercial scales, bench scales and counting scales. It is cost-effective load cell for large platforms.

Specifications

Capacity(R.L.)	kgf	30, 60, 150, 200, 300
Rated Output	mV / V	1.2 ± 0.12
Zero Balance	mV / V	0.0 ± 0.06
Accuracy Class	-	-
Non-Linearity	% R.O.	≤0.03
Hysteresis	% R.O.	≤0.03
Combined Error	% R.O.	≤0.03
Repeatability	% R.O.	≤0.01
Creep for 30min.	% R.O.	≤0.03
Return for 30min.	% R.O.	≤0.03
Resolution	-	≤1/3000
Division	mV / V	0.0004
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.028 ≤ 0.014
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		420 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Aluminum
Cable Specification	-	Ø6 x 4P x 3m (PVC)/1.365m (PVC)
Safety Overload	% R.L.	150
Platform Size	mm	400 x 600

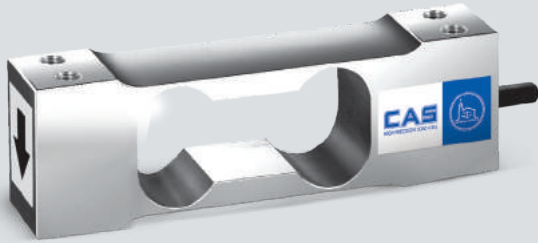
Dimensions

► BC-D



BCL

Single Point Load Cell (1~5kgf)



Features

- Pressure type
- Designed according to IP65

Application

- Commercial Scale
- Bench Scale
- Platform Scale

Description

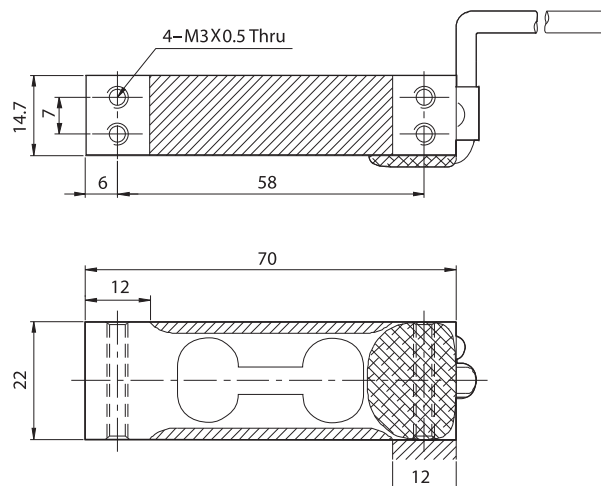
BCL is a low profile single point type load cell of aluminum material. It is suitable for small sized simple scale.

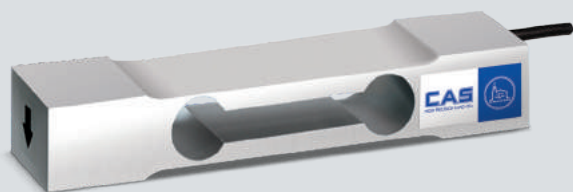
Specifications

Capacity(R.L.)	kgf	1, 2, 3, 5
Rated Output	mV / V	1.0 ± 0.1
Zero Balance	mV / V	0.0 ± 0.05
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/3000
Division	mV / V	0.00033
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.028 ≤ 0.014
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		420 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Aluminum
Cable Specification	-	Ø4 x 4P x 60cm (PVC)
Safety Overload	% R.L.	150
Platform Size	mm	200 x 200

Dimensions

► BCL (1~5kgf)



BCLSingle Point
Load Cell (6~50kgf)

Description

BCL is a low profile single point type load cell of aluminum material. It is suitable for medium sized commercial scales, bench scales, and counting scales.

Specifications

Capacity(R.L.)	kgf	6, 10, 15, 20, 30, 35, 50	
Rated Output	mV / V	2.0 ± 0.2	
Zero Balance	mV / V	0.0 ± 0.05	
Accuracy Class	-	C3	-
Non-Linearity	% R.O.	≤0.025	≤0.03
Hysteresis	% R.O.	≤0.025	≤0.03
Combined Error	% R.O.	≤0.025	≤0.03
Repeatability	% R.O.	≤0.01	≤0.01
Creep for 30min.	% R.O.	≤0.017	≤0.03
Return for 30min.	% R.O.	≤0.017	≤0.03
Resolution	-	≤1/4000	≤1/3000
Division	mV / V	0.0005	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤0.014 ≤0.011
Excitation	-Recommended -Maximum	V V	10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ	420 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Aluminum	
Cable Specification	-	Ø4 x 4P x 60cm (PVC)	
Safety Overload	% R.L.	150	
Platform Size	mm	300 x 300	

Features

- Pressure type
- Designed according to IP65

Option

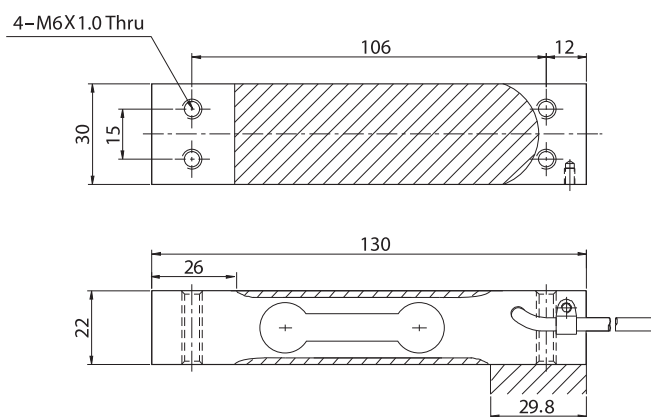
- OIML C3 Approved (OIML 60)

Application

- Commercial Scale
- Bench Scale
- Platform Scale

Dimensions

► BCL (6~50kgf)



BCL

Single Point Load Cell (60~200kgf)



Description

BCL is a single point type load cell of aluminum material. It is suitable for medium sized commercial scales, bench scales, and counting scales.

Specifications

Capacity(R.L.)	kgf	60, 100, 150, 200
Rated Output	mV / V	2.0 ± 0.2
Zero Balance	mV / V	0.0 ± 0.01
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/3000
Division	mV / V	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.028 ≤ 0.014
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		420 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Aluminum
Cable Specification	-	Ø4 x 4P x 2m (PVC)
Safety Overload	% R.L.	150
Platform Size	mm	400 x 400

Features

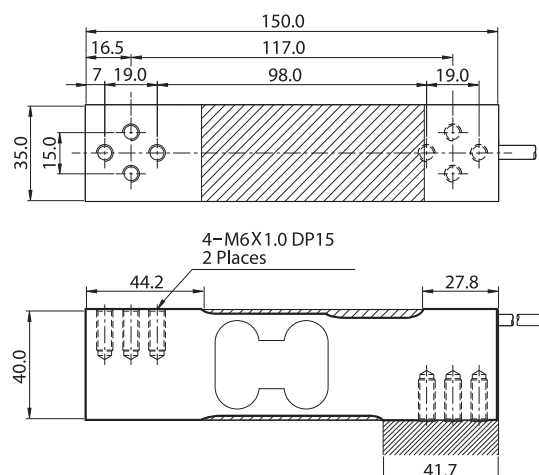
- Pressure type
- Designed according to IP65

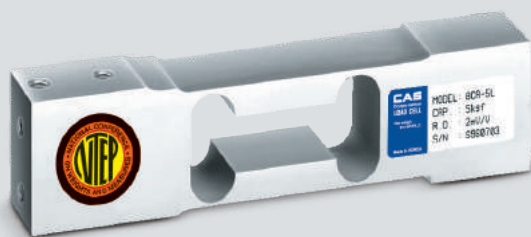
Application

- Commercial Scale
- Bench Scale
- Counting Scale
- Belt Scale
- Platform Scale

Dimensions

► BCL (60~200kgf)





Description

BCA is a single point type load cell of aluminum material. It is suitable for medium sized commercial scales, bench scales, and counting scales.

Specifications

Capacity(R.L.)	kgf	5, 6, 10, 15, 20, 30, 50, 60, 75, 100	
Rated Output	mV / V	2.0 ± 0.2	
Zero Balance	mV / V	0.0 ± 0.1	
Accuracy Class	-	C3	-
Non-Linearity	% R.O.	≤0.02	≤0.03
Hysteresis	% R.O.	≤0.02	≤0.03
Combined Error	% R.O.	≤0.02	≤0.03
Repeatability	% R.O.	≤0.01	≤0.01
Creep for 30min.	% R.O.	≤0.017	≤0.03
Return for 30min.	% R.O.	≤0.017	≤0.03
Resolution	-	≤1/5000	≤1/3000
Division	mV / V	0.0004	0.00067
Temperature Effect on	-Zero Value	%/10°C	≤0.014
	-Output Value	%/10°C	≤0.011
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	420 ± 20
	-Output	Ω	350 ± 3.5
	-Insulation	MΩ	> 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Aluminum	
Cable Specification	-	Ø5 x 4P x 1m (Urethane)	
Safety Overload	% R.L.	150	
Platform Size	mm	400 x 400	

Features

- Pressure type
- Designed according to IP65

Option

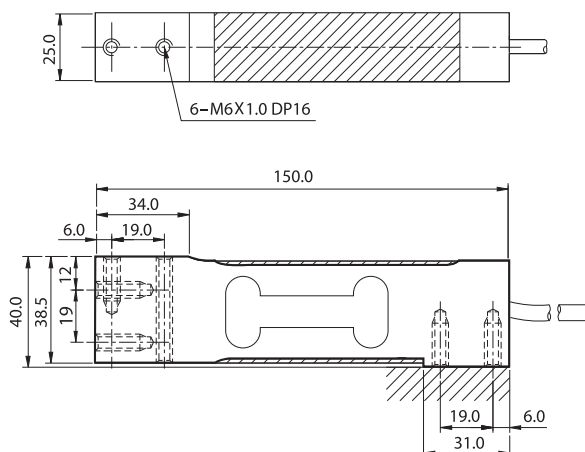
- OIML C3 approved (OIML 60)
- NTEP III 5,000d Approved
- BCA-EXP (Ex ia IIC T4 Approved)
- 6-wire connection

Application

- Bench Scale
- Counting Scale
- Platform Scale

Dimensions

► BCA





Description

BCA-EXP is a single point type load cell of aluminum material. It is suitable for medium sized Ex-proof scale in Explosive Hazardous Areas.

Specifications

Capacity(R.L.)		kgf	5, 6, 10, 15, 20, 30, 50, 60, 75, 100
Rated Output		mV / V	2.0 ± 0.2
Zero Balance		mV / V	0.0 ± 0.1
Accuracy Class		-	A
Non-Linearity		% R.O.	≤ 0.02
Hysteresis		% R.O.	≤ 0.02
Combined Error		% R.O.	≤ 0.02
Repeatability		% R.O.	≤ 0.01
Creep for 30min.		% R.O.	≤ 0.017
Return for 30min.		% R.O.	≤ 0.017
Resolution		-	≤ 1/5000
Division		mV / V	0.0004
Temperature Effect on	-Zero Value	%/10°C	≤ 0.014
	-Output Value	%/10°C	≤ 0.011
Excitation	-Recommended	V	10
	-Maximum	V	28
Resistance	-Input	Ω	420 ± 20
	-Output	Ω	350 ± 3.5
	-Insulation	MΩ	> 2000
Compensated Temperature Range		°C	-10 to + 40
Operating Temperature Range		°C	-30 to + 80
Material		-	Aluminum
Cable Specification		-	Ø5 x 4P x 1.5m (Urethane)
Safety Overload		% R.L.	150%
Platform Size		mm	400 x 400

Features

- Pressure type
- Explosion-proof Structure
- Designed according to IP65

Option

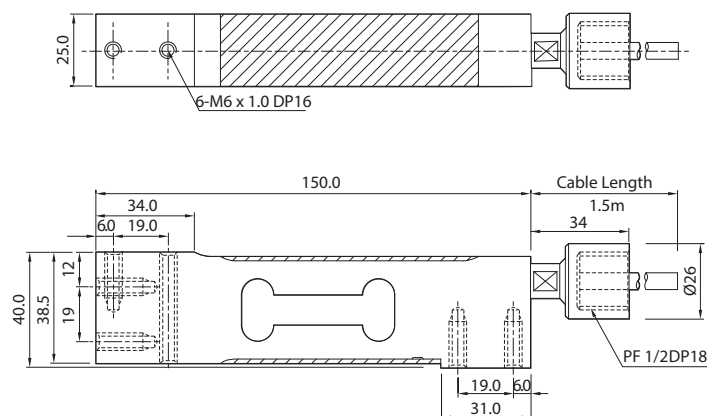
- BCA-EXP (Ex ia IIC T4 Approved)

Application

- Bench Scale
- Counting Scale
- Platform Scale

Dimensions

- Intrinsic Safety



BCDSingle Point
Load Cell

Description

BCD is a single point type load cell of aluminum material. It is suitable for large sized commercial scales, bench scales and counting scales.

Specifications

Capacity(R.L.)	kgf	30, 50, 75, 100, 150, 250, 300, 500
Rated Output	mV / V	2.0 ± 0.2
Zero Balance	mV / V	0.0 ± 0.1
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	$\leq 1/3000$
Division	mV / V	0.00067
Temperature Effect on	-Zero Value -Output Value	≤ 0.028 ≤ 0.014
Excitation	-Recommended -Maximum	V V
Resistance	-Input -Output -Insulation	Ω Ω M Ω
Compensated Temperature Range	$^{\circ}\text{C}$	-10 to +40
Operating Temperature Range	$^{\circ}\text{C}$	-30 to +80
Material	-	Aluminum
Cable Specification	-	$\varnothing 5 \times 4\text{P} \times 2.5\text{m}$ (PVC)
Safety Overload	% R.L.	150
Platform Size	mm	400 x 600

Features

- Pressure type
- Designed according to IP65

Option

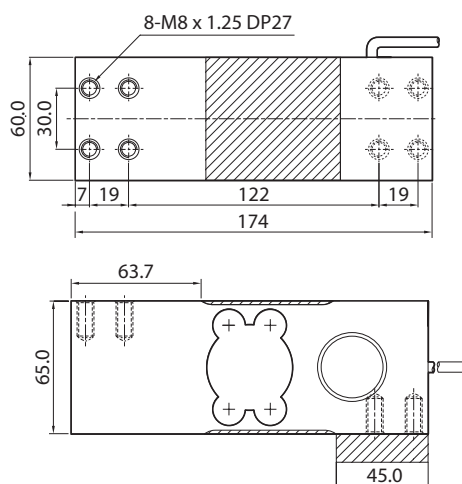
- BCD-EXP (Ex ia IIC T4 Approved 75kgf~500kgf)

Application

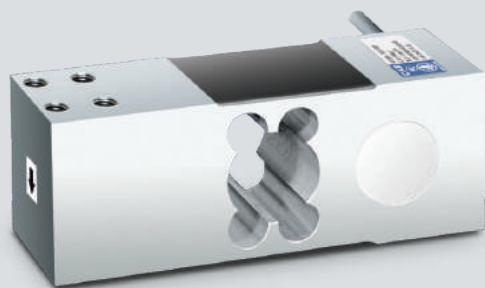
- Bench Scale
- Belt Scale
- Platform Scale

Dimensions

► BCD



BCD-EXP

Explosion Proof
Single Point Load Cell

Description

BCD-EXP is a single point type load cell of aluminum material. It is suitable for large sized Ex-proof scale in Explosive Hazardous Areas.

Specifications

Capacity(R.L.)	kgf	75, 100, 150, 250, 300, 500
Rated Output	mV / V	2.0 ± 0.2
Zero Balance	mV / V	0.0 ± 0.1
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/3000
Division	mV / V	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.028 ≤ 0.014
Excitation	-Recommended -Maximum	V V
		10 28
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		400 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to + 40
Operating Temperature Range	°C	-30 to + 80
Material	-	Aluminum
Cable Specification	-	Ø5 x 4P x 3m (Urethane)
Safety Overload	% R.L.	150%
Platform Size	mm	400 x 600

Features

- Pressure type
- Explosion-proof Structure
- Designed according to IP65

Option

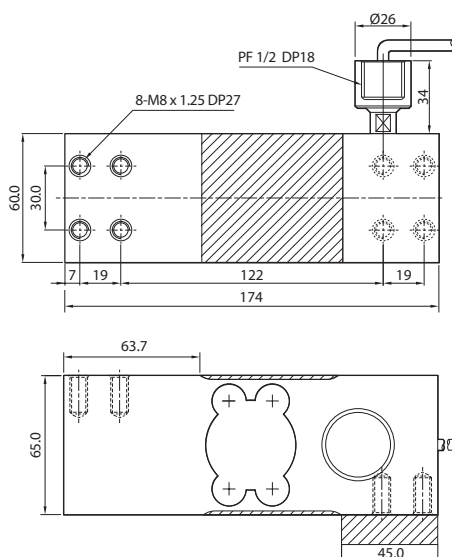
- BCD-EXP (Ex ia IIC T4 Approved 75kgf~500kgf)

Application

- Bench Scale
- Belt Scale
- Platform Scale

Dimensions

- Intrinsic Safety



BCM

Single Point
Load Cell

Description

BCM is a single point type load cell of aluminum material. It is suitable for large sized platform scales, bench scales and counting scales.

Specifications

Capacity(R.L.)	kgf	50, 75, 100, 150, 200, 250, 300, 500, 750	
Rated Output	mV / V	2.0 ± 0.2	
Zero Balance	mV / V	0.0 ± 0.1	
Accuracy Class	-	C3	-
Non-Linearity	% R.O.	≤0.02	≤0.03
Hysteresis	% R.O.	≤0.02	≤0.03
Combined Error	% R.O.	≤0.02	≤0.03
Repeatability	% R.O.	≤0.01	≤0.01
Creep for 30min.	% R.O.	≤0.017	≤0.03
Return for 30min.	% R.O.	≤0.017	≤0.03
Resolution	-	≤1/5000	≤1/3000
Division	mV / V	0.0004	0.00067
Temperature Effect on	-Zero Value	%/10°C	≤0.014
	-Output Value	%/10°C	≤0.011
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	420 ± 20
	-Output	Ω	350 ± 3.5
	-Insulation	MΩ	> 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Aluminum	
Cable Specification	-	Ø5 x 4P x 3m (Urethane)	
Safety Overload	% R.L.	150	
Platform Size	mm	600 x 600	

Features

- Pressure type
- Designed according to IP65

Option

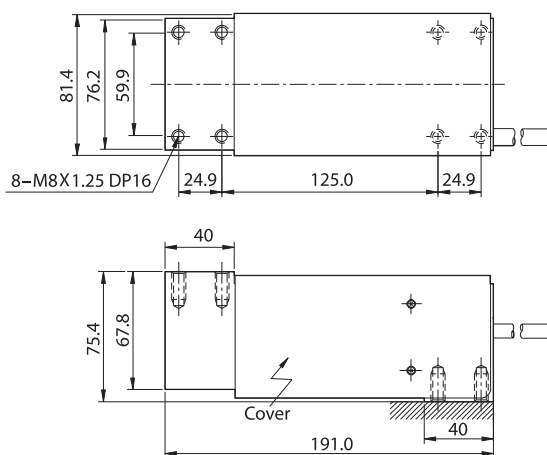
- OIML C3 approved (OIML R60 (50L~500L))
- NTEP III 5,000d Approved
- 6-wire connection

Application

- Bench Scale
- Platform Scale

Dimensions

► BCM



BCH | Single Point Load Cell



Description

BCH is a single point type load cell of aluminum material. It is suitable for large sized platform scale

Specifications

Capacity(R.L.)	kgf	500, 1K, 1.5K, 2K, 2.5K
Rated Output	mV / V	2.0 ± 0.2
Zero Balance	mV / V	0.0 ± 0.1
Accuracy Class	-	-
Non-Linearity	% R.O.	≤0.03
Hysteresis	% R.O.	≤0.03
Combined Error	% R.O.	≤0.03
Repeatability	% R.O.	≤0.01
Creep for 30min.	% R.O.	≤0.03
Return for 30min.	% R.O.	≤0.03
Resolution	-	≤1/3000
Division	mV / V	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤0.028 ≤0.014
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		400 ± 20 350 ± 3.5 >2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Aluminum
Cable Specification	-	Ø5.4 x 4P x 5m (Urethane)
Safety Overload	% R.L.	150
Platform Size	mm	1200 x 1200

Features

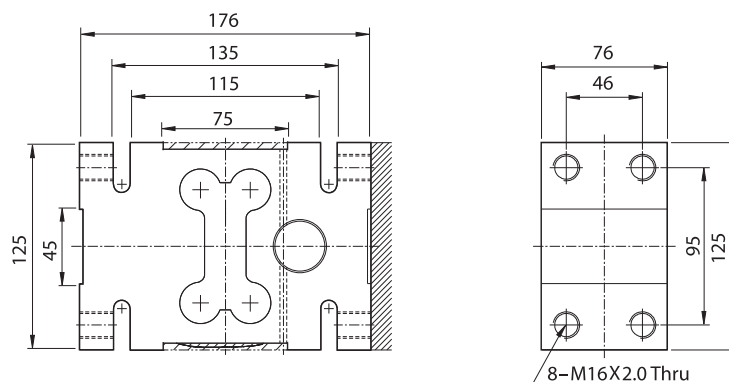
- Pressure type
- Designed according to IP65

Application

- Large Platform Scale
- Hanging Scale

Dimensions

► BCH



BCK | Single Point (Force sensor) Load Cell



Features

- Overload protection
- Small size and light weight
- Simplified tension and compression loading
- Anodized aluminum material

Description

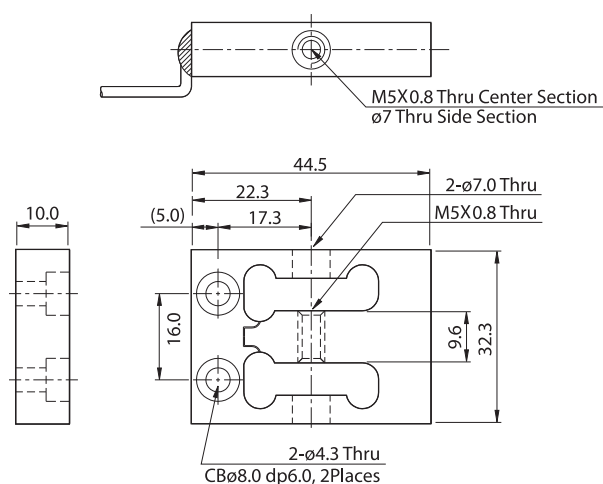
BCK is a single point type load cell of aluminum material. It is suitable for small sized tension and compression testing machine.

Specifications

Capacity(R.L.)	kgf	1, 2, 5, 10, 25, 50
Rated Output	mV / V	2.0 ± 0.2
Zero Balance	mV / V	0.0 ± 0.4
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.05
Hysteresis	% R.O.	≤ 0.05
Combined Error	% R.O.	≤ 0.05
Repeatability	% R.O.	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.1
Return for 30min.	% R.O.	≤ 0.1
Resolution	-	$\leq 1/2000$
Division	mV / V	0.001
Temperature Effect on	-Zero Value -Output Value	≤ 0.05 ≤ 0.03
Excitation	-Recommended -Maximum	V 15
Resistance	-Input -Output -Insulation	Ω Ω M Ω
Compensated Temperature Range	$^{\circ}\text{C}$	-10 to +40
Operating Temperature Range	$^{\circ}\text{C}$	-30 to +80
Material	-	Aluminum
Cable Specification	-	4p x 15cm (Flat)
Safety Overload	% R.L.	150
Platform Size	mm	No Platform Type

Dimensions

► BCK



BCLSSingle Point
Load Cell (10~50kgf)

Description

BCLS is a stainless steel low profile single point type load cell. It is suitable for small sized commercial scales, bench scales and counting scales in humid environment.

Specifications

Capacity(R.L.)		kgf	10, 15, 20, 30, 50		
Rated Output		mV / V	2.0 ± 0.2		
Zero Balance		mV / V	0 ± 0.05		
Accuracy Class		-	C4	C3	-
Non-Linearity		% R.O.	≤0.015	≤0.025	≤0.03
Hysteresis		% R.O.	≤0.015	≤0.025	≤0.03
Combined Error		% R.O.	≤0.015	≤0.025	≤0.03
Repeatability		% R.O.	≤0.015	≤0.01	≤0.01
Creep for 30min.		% R.O.	≤0.015	≤0.017	≤0.03
Return for 30min.		% R.O.	≤0.015	≤0.017	≤0.03
Resolution		-	≤1/6000	≤1/4000	≤1/3000
Division		mV / V	0.00033	0.0005	0.00067
Temperature Effect on	-Zero Value	%/10°C	0.011	0.014	0.03
	-Output Value	%/10°C	0.008	0.011	0.03
Excitation	-Recommended	V	10		
	-Maximum	V	15		
Resistance	-Input	Ω	420 ± 20		
	-Output	Ω	350 ± 3.5		
	-Insulation	MΩ	> 2000		
Compensated Temperature Range		°C	-10 to +40		
Operating Temperature Range		°C	-30 to +80		
Material		-	Stainless steel		
Cable Specification		-	Ø4x 4P x 1.5m (PVC)		
Safety Overload		% R.L.	150		
Platform Size		mm	300 x 300		

Features

- Pressure type
- Stainless steel material
- Designed according to IP67

Option

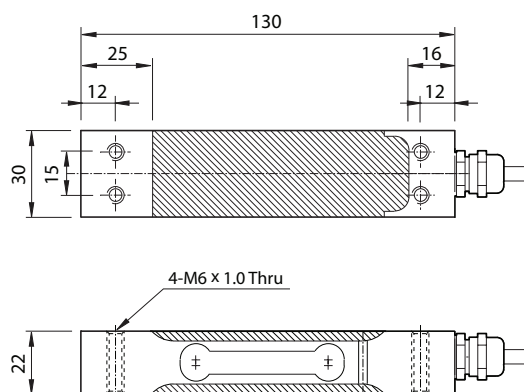
- OIML C3 Approved (OIML R60)

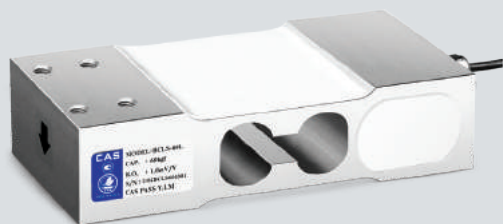
Application

- Water proof platform scale
- Water proof weighing system

Dimensions

- BCLS (10~50kgf)



BCLSSingle Point
Load Cell (60~150kgf)

Description

BCLS is a low profile single point type load cell of stainless steel. It is suitable for small sized commercial scales, bench scales and counting scales in humid environment.

Specifications

Capacity(R.L.)		kgf	60, 150	
Rated Output		mV / V	1.0 ± 0.2	
Zero Balance		mV / V	0.0 ± 0.1	
Accuracy Class		-	C3	-
Non-Linearity	% R.O.		≤0.025	≤0.03
Hysteresis	% R.O.		≤0.025	≤0.03
Combined Error	% R.O.		≤0.025	≤0.03
Repeatability	% R.O.		≤0.01	≤0.01
Creep for 30min.	% R.O.		≤0.017	≤0.03
Return for 30min.	% R.O.		≤0.017	≤0.03
Resolution		-	≤1/4000	≤1/3000
Division		mV / V	0.00025	0.00033
Temperature Effect on	-Zero Value	%/10°C	≤0.014	≤0.03
	-Output Value	%/10°C	≤0.011	≤0.03
Excitation	-Recommended	V	10	
	-Maximum	V	15	
Resistance	-Input	Ω	400 ± 20	
	-Output	Ω	350 ± 3.5	
	-Insulation	MΩ	> 2000	
Compensated Temperature Range	°C		-10 to +40	
Operating Temperature Range	°C		-30 to +80	
Material	-		Stainless steel	
Cable Specification	-		Ø5 x 4P x 2m (PVC)	
Safety Overload	% R.L.		150	
Platform Size	mm		400 x 500	

Features

- Pressure type
- Stainless steel material
- Designed according to IP67

Option

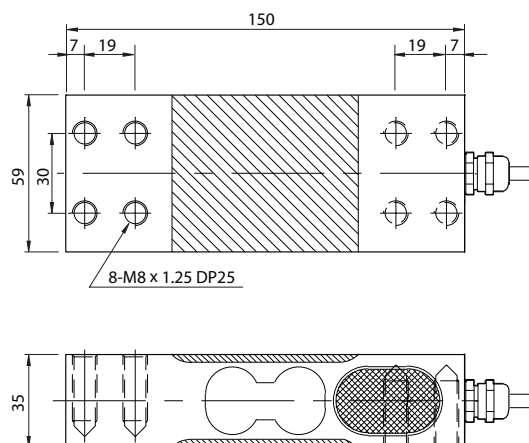
- OIML C3 Approved (OIML R60)

Application

- Water proof platform scale
- Water proof weighing system

Dimensions

► BCLS (60~150kgf)





Description

BCO is a single point type load cell of aluminum material. It is suitable for medium sized commercial scales, bench scales, and counting scales.

Specifications

Capacity(R.L.)	kgf	60, 150, 200	
Rated Output	mV / V	1.5 ± 0.15	
Zero Balance	mV / V	0.0 ± 0.1	
Accuracy Class	-	C3	-
Non-Linearity	% R.O.	≤0.025	≤ 0.03
Hysteresis	% R.O.	≤0.025	≤ 0.03
Combined Error	% R.O.	≤0.025	≤ 0.03
Repeatability	% R.O.	≤0.01	≤ 0.01
Creep for 30min.	% R.O.	≤0.017	≤ 0.03
Return for 30min.	% R.O.	≤0.017	≤ 0.03
Resolution	-	≤1/4000	≤ 1/3000
Division	mV / V	0.000375	0.0005
Temperature Effect on	-Zero Value	%/10°C	≤ 0.014
	-Output Value	%/10°C	≤ 0.011
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	420 ± 20
	-Output	Ω	350 ± 3.5
	-Insulation	MΩ	> 2000
Compensated Temperature Range	°C	-10 to + 40	
Operating Temperature Range	°C	-30 to + 80	
Material	-	Aluminum	
Cable Specification	-	Ø5 x 4P x 1.5m (PVC)	
Safety Overload	% R.L.	150	
Platform Size	mm	400 x 500	

Features

- Pressure type
- Designed according to IP65

Option

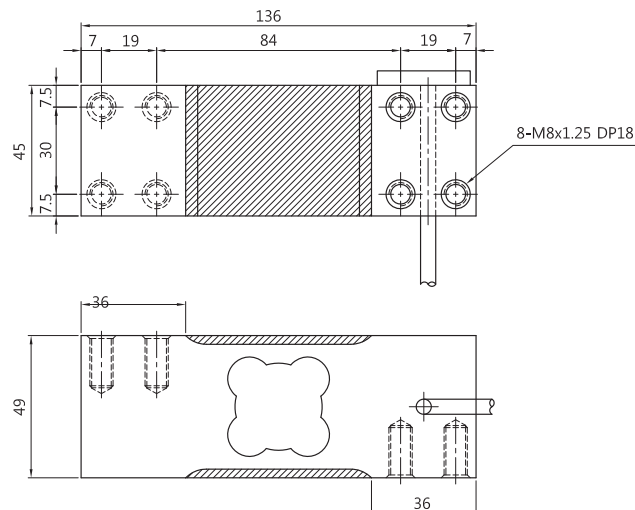
- OIML C3 Approved (OIML R60)

Application

- Bench Scale
- Platform Scale

Dimensions

► BCO



BC-PSingle Point
Load Cell

Features

- Pressure type
- Designed according to IP67

Application

- Bench Scale
- Platform Scale

Description

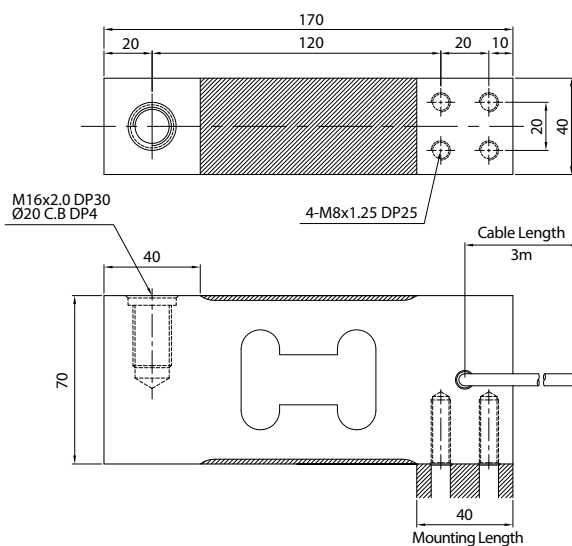
BC-P is a single point type load cell of aluminum material. It is suitable for medium sized commercial scales, bench scales, and counting scales.

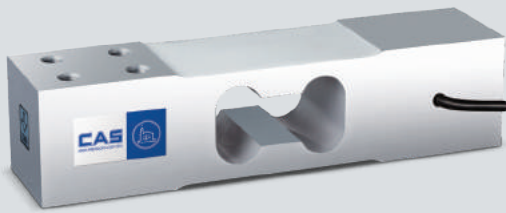
Specifications

Capacity(R.L.)	kgf	150, 300, 500
Rated Output	mV / V	1.2 ± 0.12
Zero Balance	mV / V	0.0 ± 0.06
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	$\leq 1/3000$
Division	mV / V	0.0004
Temperature Effect on	-Zero Value -Output Value	≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V 15
Resistance	-Input -Output -Insulation	Ω Ω M Ω
Compensated Temperature Range	$^{\circ}\text{C}$	-10 to +40
Operating Temperature Range	$^{\circ}\text{C}$	-30 to +80
Material	-	Aluminum
Cable Specification	-	$\varnothing 6 \times 4 \text{ p} \times 3 \text{ m}$ (PVC)
Safety Overload	% R.L.	150
Platform Size	mm	400 x 500

Dimensions

► BC-P



BC-FSingle Point
Load Cell

Description

BC-F is a single point type load cell of aluminum material. It is suitable for large sized commercial scales, industrial scales and bench scales.

Specifications

Capacity(R.L.)	kgf	200, 300, 400, 600, 700, 1000	
Rated Output	mV / V	1.2 ± 0.12	
Zero Balance	mV / V	0.0 ± 0.1	
Accuracy Class	-	C3	-
Non-Linearity	% R.O.	≤ 0.025	≤ 0.03
Hysteresis	% R.O.	≤ 0.025	≤ 0.03
Combined Error	% R.O.	≤ 0.025	≤ 0.03
Repeatability	% R.O.	≤ 0.01	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.017	≤ 0.03
Return for 30min.	% R.O.	≤ 0.017	≤ 0.03
Resolution	-	$\leq 1/4000$	$\leq 1/3000$
Division	mV / V	0.0003	0.0004
Temperature Effect on	-Zero Value	%/10°C	≤ 0.014
	-Output Value	%/10°C	≤ 0.028
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	420 ± 20
	-Output	Ω	350 ± 3.5
	-Insulation	M Ω	> 2000
Compensated Temperature Range	°C	-10 to + 40	
Operating Temperature Range	°C	-30 to + 80	
Material	-	Aluminum	
Cable Specification	-	$\varnothing 6 \times 4P \times 3m$ (PVC)	
Safety Overload	% R.L.	150	
Platform Size	mm	500 x 700	

Features

- Pressure type
- Designed according to IP65

Option

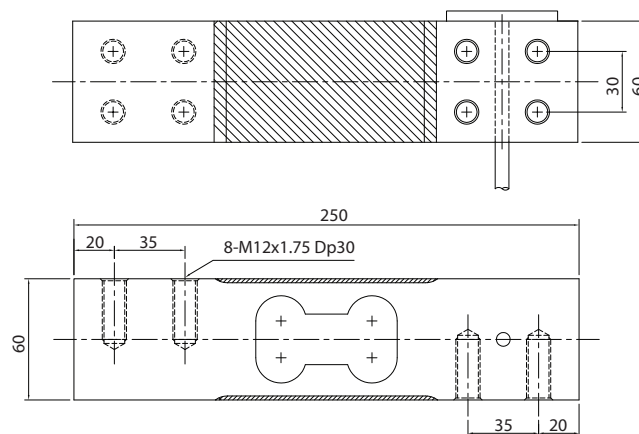
- OIML C3 Approved (OIML R60)

Application

- Bench Scale
- Platform Scale

Dimensions

► BC-F



BCP

Single Point
Load Cell

Features

- Pressure type
- Designed according to IP65

Application

- Commercial Scale
- Platform Scale

Description

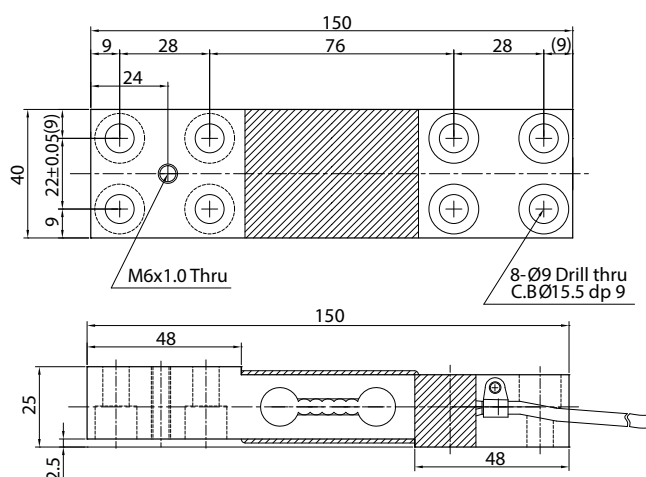
BCP is a low profile single point type load cell of aluminum material. This high-precision load cell is suitable for medium-sized Commercial, Industrial/Bench and Count Scales.

Specifications

Capacity(R.L.)	kgf	50, 100, 200
Rated Output	mV / V	1.2 ± 0.12
Zero Balance	mV / V	0.0 ± 0.1
Accuracy Class	-	-
Non-Linearity	% R.O.	≤0.03
Hysteresis	% R.O.	≤0.03
Combined Error	% R.O.	≤0.03
Repeatability	% R.O.	≤0.01
Creep for 30min.	% R.O.	≤0.03
Return for 30min.	% R.O.	≤0.03
Resolution	-	≤1/3000
Division	mV / V	0.0004
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤0.028 ≤0.014
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		420 ± 20 350 ± 10 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Aluminum
Cable Specification	-	Ø5.4 x 4p x 1m (PVC)
Safety Overload	% R.L.	150
Platform Size	mm	400 x 400

Dimensions

► BCP





Description

BCW is a Single point type load cell of aluminum material. This high-precision load cell is suitable for medium-sized Commercial, Industrial/Bench and Count Scales. Its IP65 rating makes it an excellent choice for moist environments.

Specifications

Capacity(R.L.)	kgf	60, 70, 150, 180	
Rated Output	mV / V	1.5 ± 0.15	
Zero Balance	mV / V	0.0 ± 0.03	
Accuracy Class	-	C3	-
Non-Linearity	% R.O.	≤0.025	≤0.03
Hysteresis	% R.O.	≤0.025	≤0.03
Combined Error	% R.O.	≤0.025	≤0.03
Repeatability	% R.O.	≤0.01	≤0.01
Creep for 30min.	% R.O.	≤0.017	≤0.03
Return for 30min.	% R.O.	≤0.017	≤0.03
Resolution	-	≤1/4000	≤1/3000
Division	mV / V	0.000375	0.0005
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤0.014 ≤0.011
Excitation	-Recommended -Maximum	V V	10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ	400 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Aluminum	
Cable Specification	-	Ø5 x 6P x 1.5m (PVC)	
Safety Overload	% R.L.	150	
Platform Size	mm	400 x 500	

Features

- Pressure type
- Designed according to IP65

Option

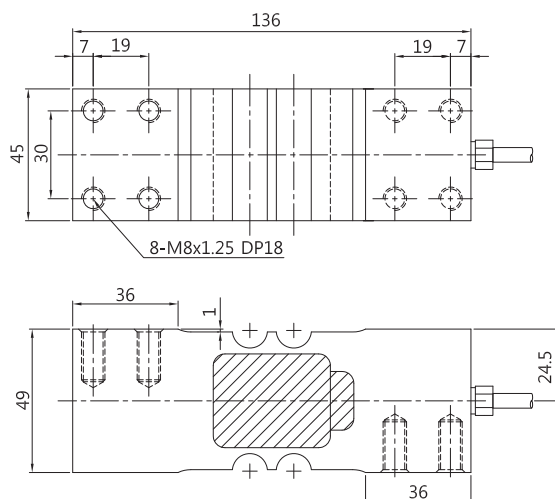
- OIML C3 Approved (OIML R60)

Application

- Waterproof Bench Scale
- Waterproof Platform Scale
- Waterproof Count Scale

Dimensions

► BCW



BCEP-EXP

Explosion Proof
Single Point Load Cell (10~50kgf)



Description

BCEP-EXP is a stainless steel Single point type load cell. BCEP-EXP is built for hazardous environments such as in explosive and moist settings. This high-accuracy Load Cell is used for small-sized Explosion-Proof Scales.

Specifications

Capacity(R.L.)	kgf	10, 20, 50	
Rated Output	mV / V	2.0 ± 0.2	
Zero Balance	mV / V	0.0 ± 0.2	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.03
Hysteresis	% R.O.	≤ 0.02	≤ 0.03
Combined Error	% R.O.	≤ 0.02	≤ 0.03
Repeatability	% R.O.	≤ 0.01	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.017	≤ 0.03
Return for 30min.	% R.O.	≤ 0.017	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/3000
Division	mV / V	0.0004	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.014 ≤ 0.011
Excitation	-Recommended -Maximum	V V	10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ	420 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to + 40	
Operating Temperature Range	°C	-30 to + 80	
Material	-	Stainless steel	
Cable Specification	-	Ø5 x 4P x 3m (Urethane)	
Safety Overload	% R.L.	150	
Platform Size	mm	300 x 300	

Features

- Pressure type
- Stainless steel material
- Hermetically Sealed Structure
- Explosion-proof Structure
- Designed according to IP66

Option

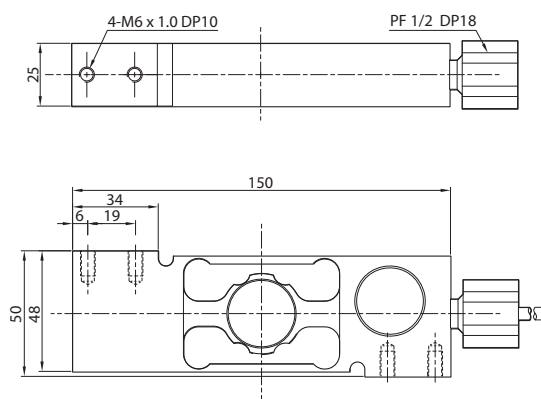
- BCEP-EXP / Intrinsic Safety (Ex ia IIC T4)

Application

- Bench Scale
- Platform Scale

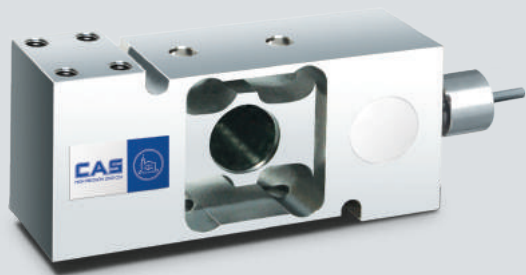
Dimensions

- ▶ Intrinsic Safety



BCEP-EXP

Explosion Proof
Single Point Load Cell (100~300 kgf)



Features

- Pressure type
- Stainless steel material
- Hermetically Sealed Structure
- Explosion-proof Structure
- Designed according to IP66

Option

- BCEP-EXP / Intrinsic Safety (Ex ia IIC T4)
- BCEP-EXP-D / Flameproof (Ex d IIC T4)
- BCEP-EXP-TD / Dust-proof (Ex tD A21 T135°C IP66)

Application

- Bench Scale
- Platform Scale

Description

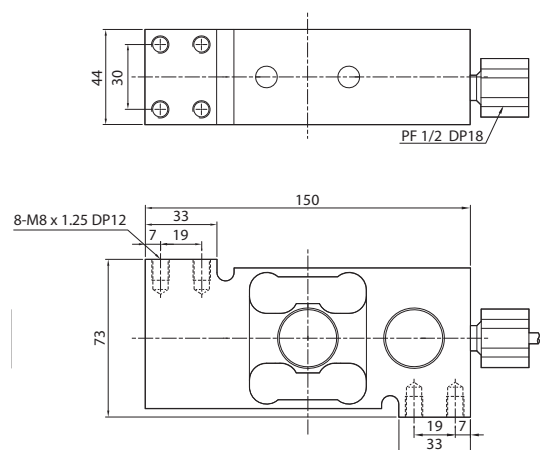
BCEP-EXP is a stainless steel Single point type load cell. Capable of withstanding explosions in hazardous areas, this explosion proof load cell is suitable for mid-sized explosion proof scales. Its IP66 approved water proof feature is also highly preferred in wet areas.

Specifications

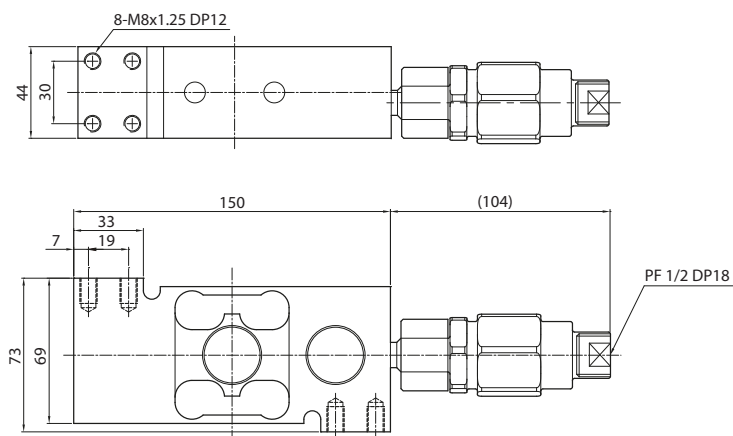
Capacity(R.L.)	kgf	100, 200, 300	
Rated Output	mV / V	2.0 ± 0.2	
Zero Balance	mV / V	0.0 ± 0.02	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.03
Hysteresis	% R.O.	≤ 0.02	≤ 0.03
Combined Error	% R.O.	≤ 0.02	≤ 0.03
Repeatability	% R.O.	≤ 0.01	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.017	≤ 0.03
Return for 30min.	% R.O.	≤ 0.017	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/3000
Division	mV / V	0.0004	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.014 ≤ 0.011
Excitation	-Recommended -Maximum	V V	10 28
Resistance	-Input -Output -Insulation	Ω Ω MΩ	420 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to + 40	
Operating Temperature Range	°C	-30 to + 80	
Material	-	Stainless steel	
Cable Specification	-	Ø5 x 4P x 3m (Urethane)	
Safety Overload	% R.L.	150	
Platform Size	mm	400 x 500	

Dimensions

► Intrinsic Safety



► Flameproof, Dust-proof



BCEPL-EXP

Explosion Proof
Single Point Load Cell (10~100kgf)



Description

BCEP-EXP is a stainless steel Single point type load cell. Capable of withstanding explosions in hazardous Areas, this explosion proof load cell is suitable for mid-sized explosion proof scales. Its IP68 approved water proof feature is also highly preferred in wet areas.

Specifications

Capacity(R.L.)	kgf	10, 20, 50, 100
Rated Output	mV / V	2.0 ± 0.2
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/3000
Division	mV / V	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.028 ≤ 0.015
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		400 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Stainless steel
Cable Specification	-	Ø5 x 4P x 3m (Urethane)
Safety Overload	% R.L.	150
Platform Size	mm	300 x 300

Features

- Pressure type
- Stainless steel material
- Explosion-proof Structure
 - Ex db IIC T6 Gb
 - Ex tD A21 T85°C IP68
- Designed according to IP68

Option

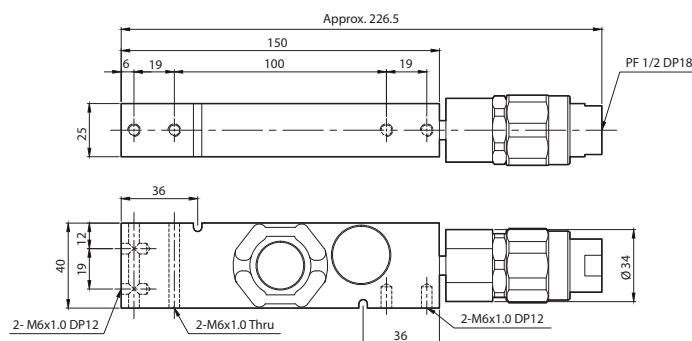
- BCEPL-EXP / Flameproof (Ex d IIC T4)
- BCEPL-EXP / Dust-proof (Ex tD A21 T135°C IP66)

Application

- Platform Scale

Dimensions

- Flameproof, Dust-proof



BCC | Single Point Load Cell



Description

BCC-10,15L is an aluminum material Single Point type load cell. It is suitable for low-capacity load cells and dynamic weighing products such as Auto Checkers.

Specifications

Capacity(R.L.)	kgf	10, 15
Rated Output	mV / V	2 ± 0.2
Zero Balance	mV / V	0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤0.03
Hysteresis	% R.O.	≤0.03
Combined Error	% R.O.	≤0.03
Repeatability	% R.O.	≤0.01
Creep for 30min.	% R.O.	≤0.03
Return for 30min.	% R.O.	≤0.03
Resolution	-	1/3000
Division	mV / V	0.00066
Temperature Effect on	-Zero Value	%/10°C
	-Output Value	%/10°C
Excitation	-Recommended	V
	-Maximum	V
Resistance	-Input	Ω
	-Output	Ω
	-Insulation	MΩ
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Aluminum
Cable Specification	-	Ø5 x 4P x 5m (PVC)
Safety Overload	% R.L.	150

Features

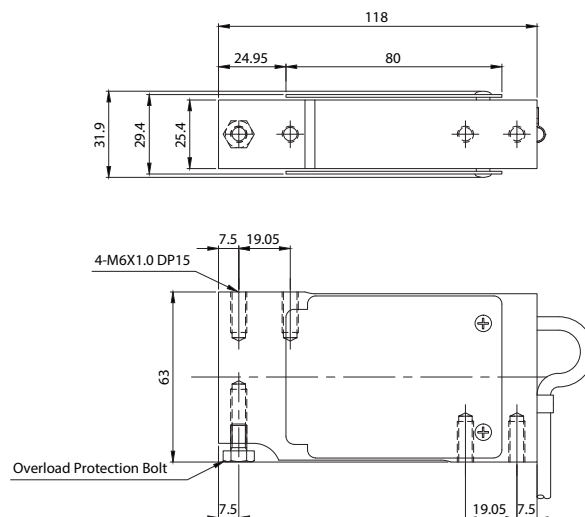
- Pressure type
- Designed according to IP67

Application

- Low-capacity dynamic weighing

Dimensions

► BCC



INDUSTRIAL WEIGHING SOLUTION™



Single Ended Beam Load Cell

BSA / BSB / BSS / BS / HBS / ZBSHR

CAS is a leading manufacturer of weighing and measurement tools, and provides High Accuracy and High Precision Load Cells suitable for Industrial Areas.





Features

- Pressure type
- Designed according to IP66

Option

- TW Bolt Type Accessory (250kgf~2tf / 3~5tf)
- TWE Ball Type Accessory (250kgf~2tf / 3~5tf)
- OIML C3 class Approved (OIML R60)
- NTEP Class III 5000d Approved

Application

- Platform Scale
- Tank, Hopper Scale

Description

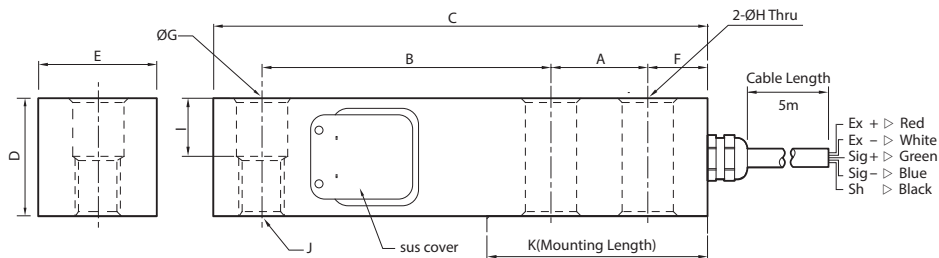
BSA is a Single ended beam type load cell of steel material. Its Low Profile Pressure Type Structure makes it compatible with platform, hopper, tank scales and a great variety of other scale types.

Specifications

Capacity(R.L.)	kgf	250, 500, 1K, 2K, 3K, 5K	
Rated Output	mV / V	3.0 ± 0.0075	
Zero Balance	mV / V	0.0 ± 0.03	
Accuracy Class	-	C3	-
Non-Linearity	% R.O.	≤ 0.025	≤ 0.03
Hysteresis	% R.O.	≤ 0.025	≤ 0.03
Combined Error	% R.O.	≤ 0.025	≤ 0.03
Repeatability	% R.O.	≤ 0.01	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.017	≤ 0.03
Return for 30min.	% R.O.	≤ 0.017	≤ 0.03
Resolution	-	≤ 1/4000	≤ 1/3000
Division	mV / V	0.00075	0.001
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.014 ≤ 0.011
Excitation	-Recommended -Maximum	V V	10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ	350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Steel	
Cable Specification	-	Ø5.4 x 4P x 3M (PVC)	Ø5.4 x 4P x 5M (Urethane)
Safety Overload	% R.L.	150	

Dimensions

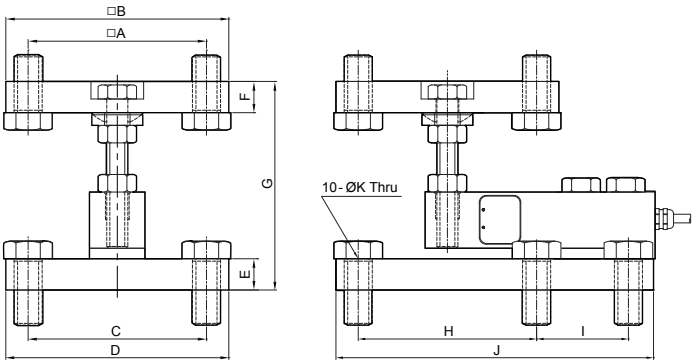
► BSA



Capa.	A	B	C	D	E	F	G	H	I	J	K	Cable (m)
250kgf~2tf	25.4	76.2	130	32	32	15.8	13.5	13.5	16	M12 x 1.75	57	3/5
3~5tf	38.1	95.3	171.5	38	38	19	20	20	19	M18 x 1.5	76.1	

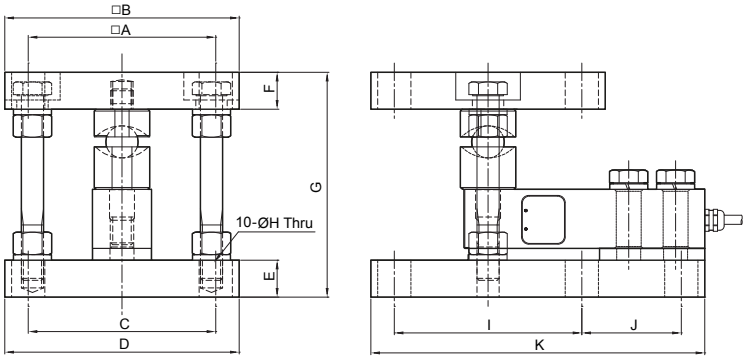
Accessory Dimensions

► BSA-TW



Capa.	A	B	C	D	E	F	G	H	I	J	K
250kgf-2tf	101.6	127	101.6	127	17.8	17.8	118.8	101.6	52.3	180.9	17
3-5tf	101.6	127	101.6	127	23.9	23.9	142.4	101.6	82.5	215.9	17

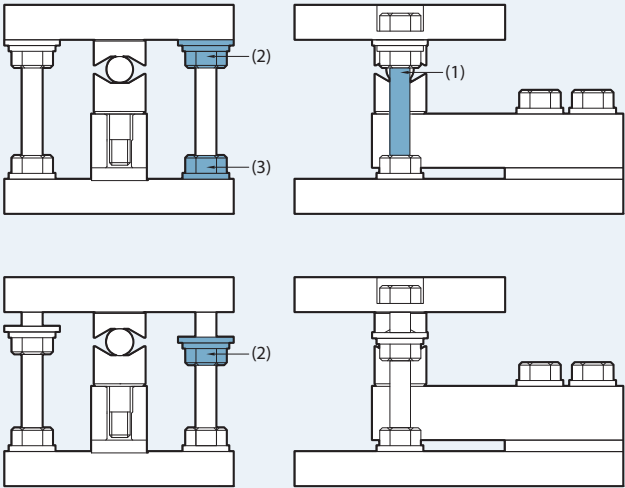
► BSA-TWE



Capa.	A	B	C	D	E	F	G	H	I	J	K
250kgf-2tf	101.6	127	101.6	127	20	20	121.8	18	101.6	53.9	180.9
3-5tf	101.6	127	101.6	127	24	26	156.15	18	101.6	88.9	215.9

Installation method

► BSA



1. Twist Hexagonal Bolt (1) on Mounting Plate.
2. Place Hexagonal Nuts (2), (3) on both ends as shown in image.
3. Squeeze Hexagonal Nuts and Bolt as shown in step 1 and 2 of image.
4. Install Load Cell with BallCup.

1. Slowly Twist Hexagonal Bolt in the opposite direction.
2. Repeat the above step on the Hexagonal Nut on the opposite side.
3. Unwinding the Hexagonal Nut without causing any disturbance in the application of weight placed on element is a crucial part of this step.
4. Replace (2) with a Hexagonal Nut that can adjust its placement.



Description

BSB is a Single ended beam type load cell of steel material . Its Low Profile Pressure Type Structure makes it compatible with platform, hopper, tank scales and a great variety of other scale types.

Specifications

Capacity(R.L.)	kgf	250, 500, 1K, 2K, 3K, 5K, 10K
Rated Output	mV / V	3.0 ± 0.0075
Zero Balance	mV / V	0.0 ± 0.03
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/3000
Division	mV / V	0.001
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.028 ≤ 0.015
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel
Cable Specification	-	Ø5.4 x 4P x 3m (PVC), 5m (3~5tf), 10m (10tf)
Safety Overload	% R.L.	150

Features

- Pressure type
- Designed according to IP66

Option

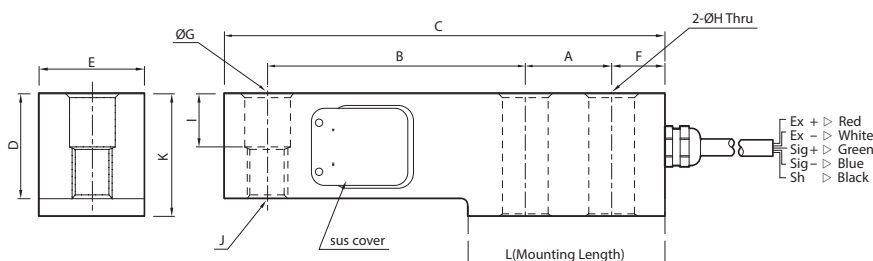
- TW Bolt Type Accessory (250kgf~2tf / 3~5tf)
- TWE Ball Type Accessory (250kgf~2tf / 3~5tf)

Application

- Platform Scale
- Tank, Hopper Scale

Dimensions

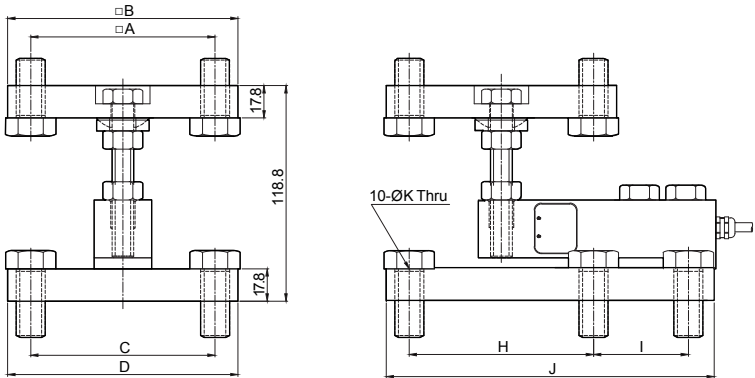
► BSB



Capa.	A	B	C	D	E	F	G	H	I	J	K	L	Cable (m)
250kgf~2tf	25.4	76.2	131	32	31.8	16.7	13.5	13.5	16	M12 x 1.75	38	57.2	3
3~5tf	38.2	95.3	172.5	38	38	20	20	20	19	M18 x 1.5	44.5	76.2	5
10tf	50.8	120.7	223.3	50.8	50.8	26.4	26.2	26.2	25.4	M24 x 2	57.2	101.6	10

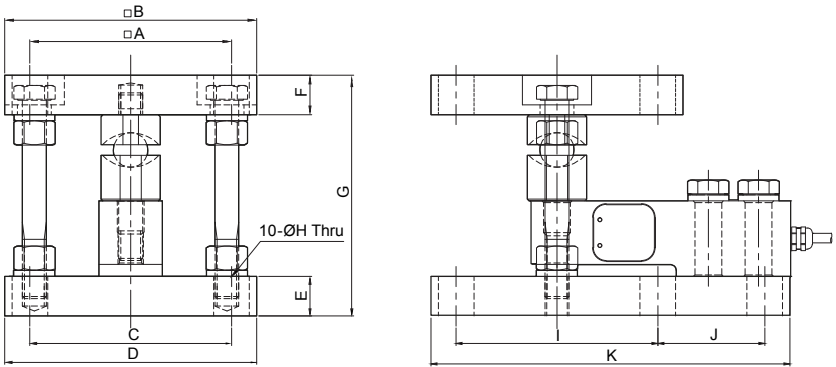
Accessory Dimensions

► BSB-TW



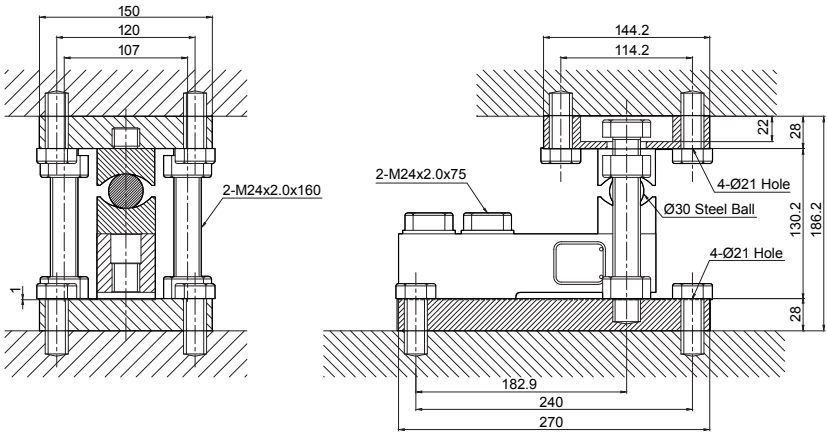
Capa.	A	B	C	D	E	F	G	H	I	J	K
250kgf~2tf	101.6	127	101.6	127	17.8	17.8	118.8	101.6	52.3	180.9	17
3~5tf	101.6	127	101.6	127	23.9	23.9	142.4	101.6	82.5	215.9	17

► BSB-TWE



Capa.	A	B	C	D	E	F	G	H	I	J	K
250kgf~2tf	101.6	127	101.6	127	20	20	121.8	18	101.6	53.9	180.9
3~5tf	101.6	127	101.6	127	24	26	156.15	18	101.6	88.9	215.9

► BSB-TWE (10t)



BSSSingle Ended Beam
Load Cell

Features

- Pressure-type
- Stainless Steel
- Hermetically sealed structure
- Designed according to IP68

Option

- TW Bolt Type Accessory (250kgf~2tf / 3~5tf)
- TWB Ball Type Accessory (250kgf~2tf / 3~5tf)
- BCEP-EXP / Intrinsic Safety (Ex ia IIC T4)
- BCEP-EXP-D / Flameproof (Ex d IIC T6)
- BCEP-EXP-TD / Dust-proof (Ex tD A21 T135°C IP66)
- OIML C3 Approved (OIML R60)
- NTEP Class III 5000 Approved

Application

- Platform Scale
- Tank, Hopper Scale

Description

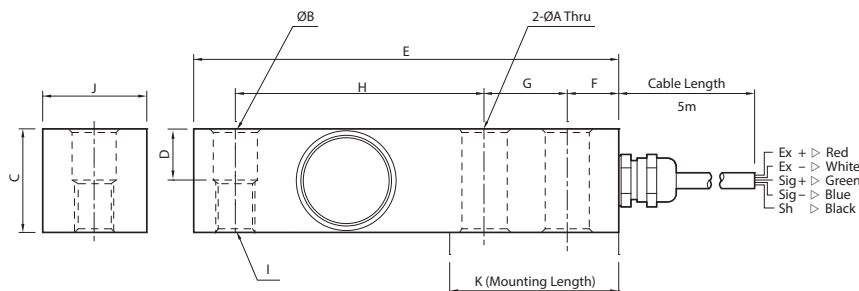
BSS is a stainless steel Single ended beam type Load Cell, BSS is a Low Profile Hermetically-Sealed Type Structure that makes it compatible with platform, hopper, tank scales and a variety of other scales.

Specifications

Capacity(R.L.)	kgf	500, 1K, 2K, 3K, 5K	
Rated Output	mV / V	2.0 ± 0.005	
Zero Balance	mV / V	0.0 ± 0.02	
Accuracy Class	-	C3	-
Non-Linearity	% R.O.	≤ 0.025	≤ 0.03
Hysteresis	% R.O.	≤ 0.025	≤ 0.03
Combined Error	% R.O.	≤ 0.025	≤ 0.03
Repeatability	% R.O.	≤ 0.01	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.017	≤ 0.03
Return for 30min.	% R.O.	≤ 0.017	≤ 0.03
Resolution	-	≤ 1/4000	≤ 1/3000
Division	mV / V	0.005	0.0067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.014 ≤ 0.011
Excitation	-Recommended -Maximum	V V	10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ	350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Stainless steel	
Cable Specification	-	Ø5.4 x 4P x 5m (Urethane)	
Safety Overload	% R.L.	150.	

Dimensions

► BSS



Capa.	A	B	C	D	E	F	G	H	I	J	K	Cable (m)
500kgf~2tf	13.5	13.5	31.7	15.8	130	15.8	25.4	76.1	M12 x 1.75	31.7	57	5
3~5tf	20	20	38.1	19.1	171.5	19	38.1	95.3	M18 x 1.5	38.1	76.1	

BSS-EXP

Explosion Proof
Single Ended Beam Load Cell

Features

- Pressure-type
- Stainless Steel
- Low profile
- Hermetically sealed structure
- Designed according to IP66

Option

- TW Bolt Type Accessory (250kgf~2tf / 3~5tf)
- TWE Ball Type Accessory (250kgf~2tf / 3~5tf)
- BCEP-EXP / Intrinsic Safety (Ex ia IIC T4)
- BCEP-EXP-D / Flameproof (Ex d IIC T6)
- BCEP-EXP-TD / Dust-proof (Ex tD A21 T135°C IP66)

Application

- Platform Scale
- Tank, Hopper Scale

Description

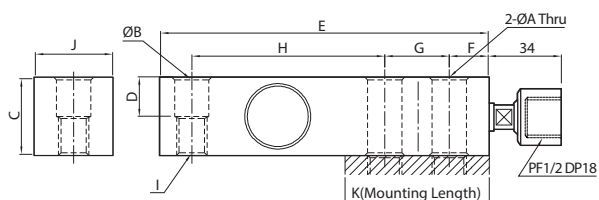
BSS-EXP is a stainless steel Single ended beam type load cell. Capable of withstanding Explosions in Hazardous Areas, this explosion proof load cell is suitable for mid-sized explosion proof platform, hopper, tank and many other types of scales. Its IP66 approved water proof feature is also highly preferred in wet areas.

Specifications

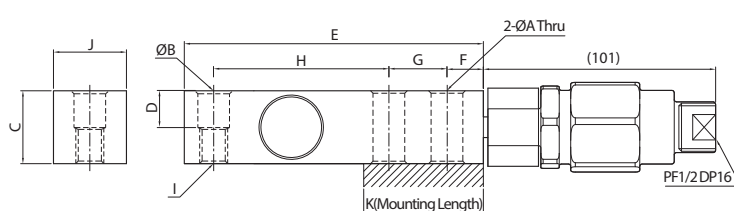
Capacity(R.L.)	kgf	500, 1K, 2K, 3K, 5K	
Rated Output	mV / V	2.0 ± 0.005	
Zero Balance	mV / V	0.0 ± 0.02	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.025	≤ 0.03
Hysteresis	% R.O.	≤ 0.025	≤ 0.03
Combined Error	% R.O.	≤ 0.025	≤ 0.03
Repeatability	% R.O.	≤ 0.01	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.017	≤ 0.03
Return for 30min.	% R.O.	≤ 0.017	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/3000
Division	mV / V	0.0004	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.014 ≤ 0.011
Excitation	-Recommended -Maximum	V V	10 28
Resistance	-Input -Output -Insulation	Ω Ω MΩ	350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to + 40	
Operating Temperature Range	°C	-30 to + 80	
Materia	-	Stainless steel	
Cable Specification	-	Ø5 x 4P x 5m (Urethane)	
Safety Overload	% R.L.	150	

Dimensions

► Intrinsic Safety



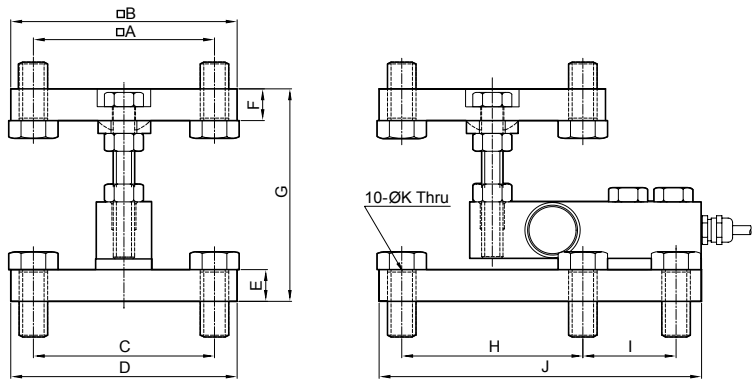
► Flameproof, dust-proof



Capa.	A	B	C	D	E	F	G	H	I	J	K	Cable (m)
500kgf~2tf	13.5	13.5	31.7	15.8	130	15.8	25.4	76.1	M12 x 1.75	31.7	52	5
3~5tf	20	20	38.1	19.1	171.5	19	38.1	95.3	M18 x 1.5	38.1	76.2	

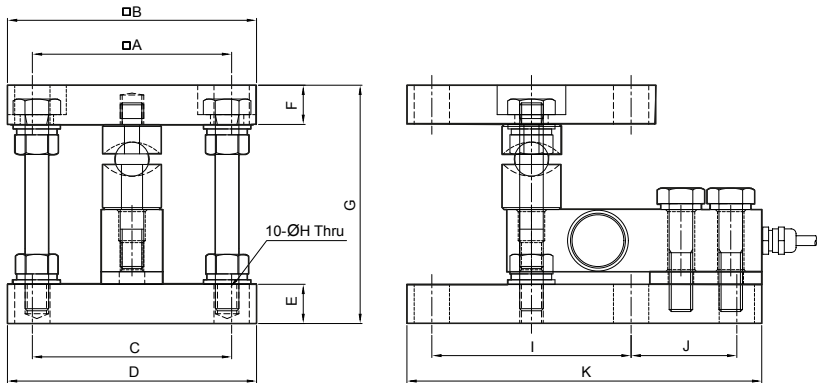
Accessory Dimensions

► BSS-TW



Capa.	A	B	C	D	E	F	G	H	I	J	K
500kgf~2tf	101.6	127	101.6	127	17.8	17.8	118.8	101.6	52.3	180.9	17
3~5tf	101.6	127	101.6	127	23.9	23.9	142.4	101.6	82.5	215.9	17

► BSS-TWE



Capa.	A	B	C	D	E	F	G	H	I	J	K
500kgf~2tf	101.6	127	101.6	127	20	20	121.8	18	101.6	53.9	180.9
3~5tf	101.6	127	101.6	127	24	26	156.15	18	101.6	88.9	215.9

BS | Single Ended Beam Load Cell (250kgf~10tf)



Features

- Pressure type
- Low price model
- Designed according to IP65

Option

- Ball type Accessory (250kgf~2tf, 5tf, 10tf)

Application

- Platform Scale
- Tank, Hopper Scale

Description

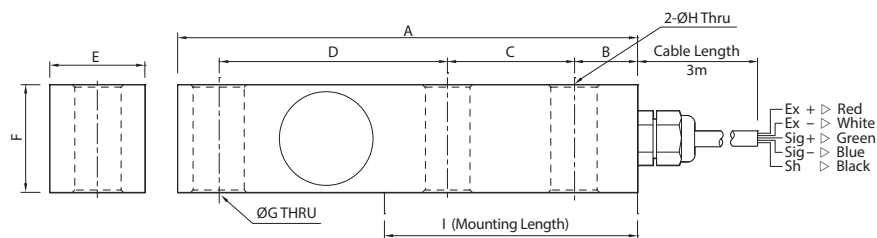
BS is a Single ended beam type load cell of steel material. Compression type of low profile structure is suitable for various use environments such as platform, hopper, and tank size.

Specifications

Capacity(R.L.)	kgf	250, 500	1K, 2K, 5K, 10K
Rated Output	mV / V	1.5 ± 0.0037	2.0 ± 0.005
Zero Balance	mV / V	0.0 ± 0.015	0.0 ± 0.02
Accuracy Class	-	-	-
Non-Linearity	% R.O.	≤ 0.03	≤ 0.03
Hysteresis	% R.O.	≤ 0.03	≤ 0.03
Combined Error	% R.O.	≤ 0.03	≤ 0.03
Repeatability	% R.O.	≤ 0.01	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.03	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03	≤ 0.03
Resolution	-	≤ 1/3000	≤ 1/3000
Division	mV / V	0.0005	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.028 ≤ 0.015
Excitation	-Recommended -Maximum	V V	10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ	400 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40	-10 to +40
Operating Temperature Range	°C	-30 to +80	-30 to +80
Material	-	Steel	Steel
Cable Specification	-	Ø5.4 x 4P x 3m (Urethane), 10m(10tf)	Ø5.4 x 4P x 3m (Urethane), 10m(10tf)
Safety Overload	% R.L.	150	150
Safety Platform Size	mm	4-Point Platform	4-Point Platform

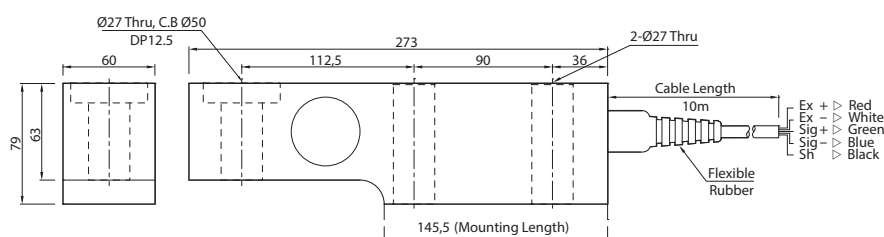
Dimensions

► BS (250kgf~5tf)



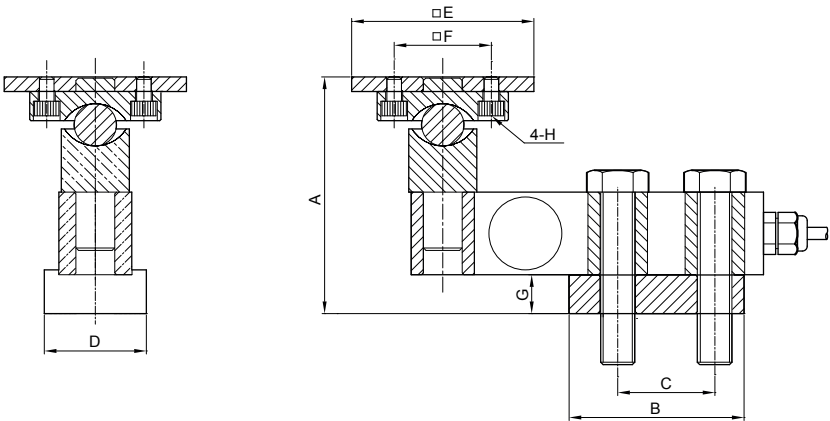
Capa.	A	B	C	D	E	F	G	H	I	Cable (m)
250kgf~2tf	145	20	40	71.9	30	34	16	14.5	72	3
5tf	205	25	55	105	38	48	20.5	20.5	100	10

► BS (10tf)



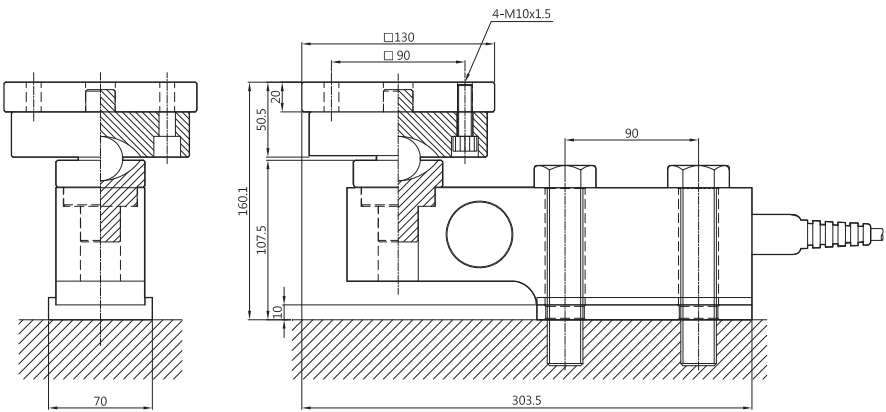
Accessory Dimensions

► BS (250kgf~5tf)



Capa.	A	B	C	D	E	F	G	H
250kgf~2tf	97.4	72	40	42	75	40	16	M6 x 1.0
5tf	134	100	55	48	100	50	16	M10 x 1.5

► BS (10tf)



HBSSingle Ended Beam
Load Cell

Features

- Pressure type
- SUS type
- fully welded structure
- Designed according to IP67

Option

- Ball type Accessory
- HBS-EXP/ Essential safety explosion certificate (Ex ia IIC T4) 10~500kgf
- OIML C3 Approved (OIML R60)

Application

- Platform Scale
- Tank, Hopper Scale

Description

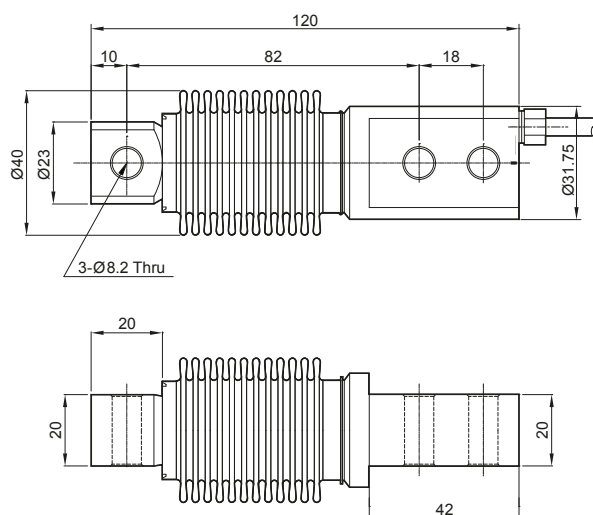
The HBS is a stainless steel Single ended beam type load cell. It is a type of compressive structure that is suitable for various use environments such as platform, hopper and tank size.

Specifications

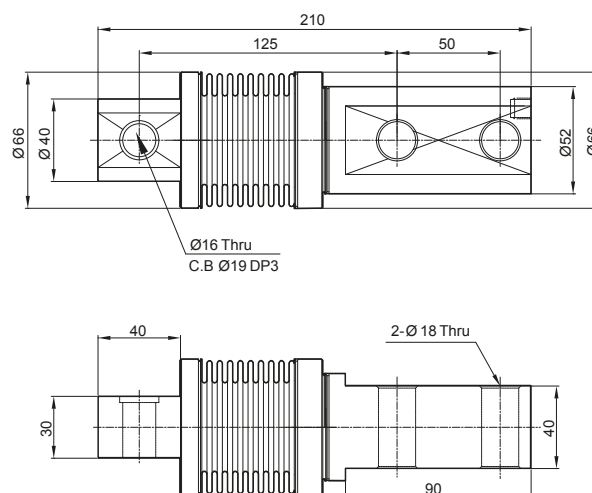
Capacity(R.L.)	kgf	10, 20, 50, 100, 200, 250, 500, 1K, 2K
Rated Output	mV / V	2.0 ± 0.005
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	C3
Non-Linearity	% R.O.	≤ 0.02
Hysteresis	% R.O.	≤ 0.02
Combined Error	% R.O.	≤ 0.02
Repeatability	% R.O.	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.017
Return for 30min.	% R.O.	≤ 0.017
Resolution	-	≤ 1/5000
Division	mV / V	0.0004
Temperature Effect on	-Zero Value -Output Value	%/10°C ≤ 0.014 %/10°C ≤ 0.011
Excitation	-Recommended -Maximum	V 10 V 15
Resistance	-Input -Output -Insulation	Ω 400 ± 20 Ω 350 ± 3.5 MΩ > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Stainless steel
Cable Specification	-	Ø5.4 x 4P x 3m (Urethane)
Safety Overload	% R.L.	150

Dimensions

► HBS (10~500kgf)



► HBS (1~2tf)



HBS-EXP

Explosion Proof Single Ended Beam Load Cell



Description

HBS-EXP is a stainless steel Single ended beam type load cell. Designed with a blast-proof structure, it is suitable for various use environments such as explosion-resistant platforms, hoppers, and tank scale.

Specifications

Capacity(R.L.)	kgf	10, 20, 50, 100, 200, 250, 500	
Rated Output	mV / V	2.0 ± 0.005	
Zero Balance	mV / V	0.0 ± 0.02	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.03
Hysteresis	% R.O.	≤ 0.02	≤ 0.03
Combined Error	% R.O.	≤ 0.02	≤ 0.03
Repeatability	% R.O.	≤ 0.01	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.017	≤ 0.03
Return for 30min.	% R.O.	≤ 0.017	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/3000
Division	mV / V	0.0004	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.014 ≤ 0.015
Excitation	-Recommended -Maximum	V V	10 28
Resistance	-Input -Output -Insulation	Ω Ω MΩ	400 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to + 40	
Operating Temperature Range	°C	-30 to + 80	
Material	-	Stainless steel	
Cable Specification	-	Ø5 x 4P x 3m (Urethane)	
Safety Overload	% R.L.	150	

Features

- Pressure type
- Stainless Steel
- Hermetically sealed structure
- Essential safety explosion certificate (Ex ia IIC T4)
- Designed according to IP68

Option

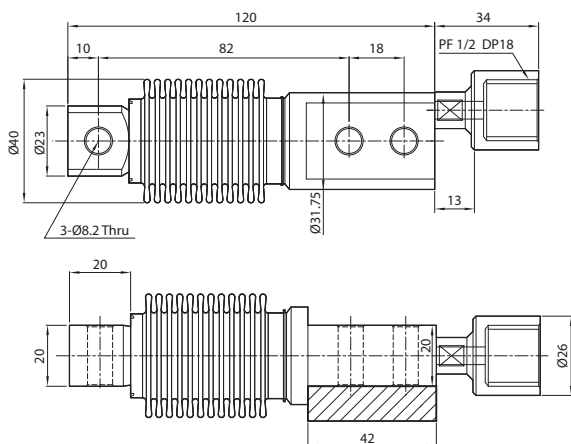
- Ball type Accessory (250kgf~2tf, 5tf, 10tf)
- HBS-EXP / Intrinsic Safety (Ex ia IIC T4)
- HBS-EXP-D / Flameproof (Ex d IIC T6)
- HBS-EXP-TD / Dust-proof (Ex td A21 T85°C)

Application

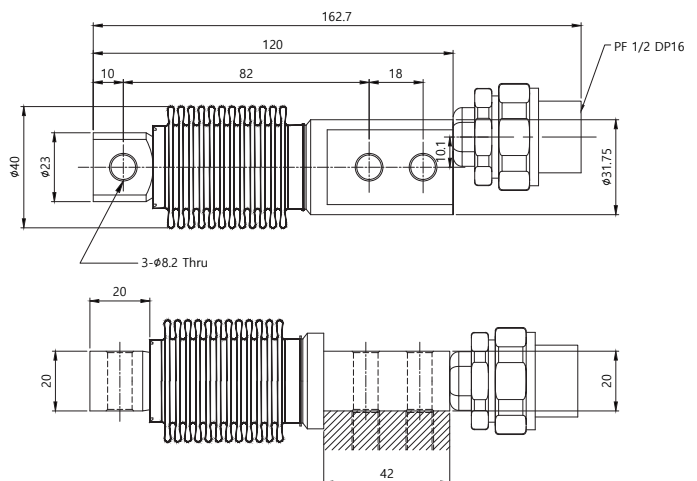
- Platform Scale
- Tank, Hopper Scale

Dimensions

► Intrinsic Safety

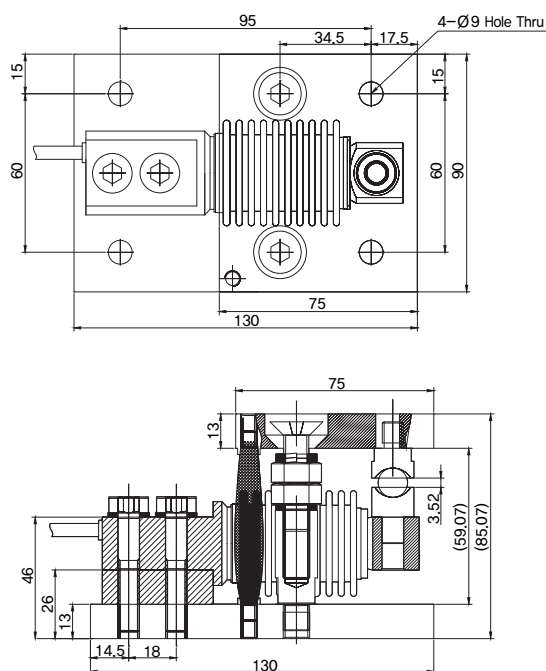


► Flameproof, Dust-proof



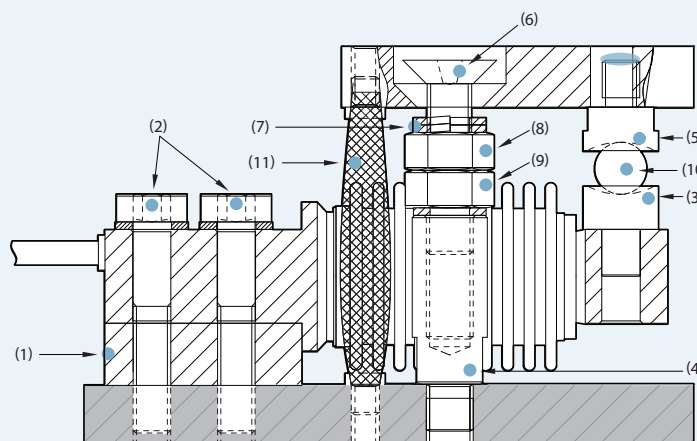
Accessory Dimensions

► HBS



Installation method

► HBS

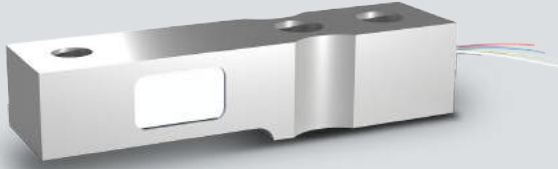


NO.	
(1)	Spacer
(2)	six-piece wrench bolt & washer
(3)	Lower ball cup
(4)	Supporter
(5)	Upper ball cup
(6)	six-piece dish head wrench bolt
(7)	Washer
(8)	Hex nut
(9)	Hex nut (Thin)
(10)	Steel ball
(11)	By-pass strap

1. Attach the spacer (1) to the base plate, and then assemble the load cell (6-angle wrench bolt and washer (2)).
2. Assemble the lower ball cup (3) on the road cell.
3. After assembling the support (4) on the base plate, apply an anti-freeze solution.
4. After assembling the upper ball cup (5) on the upper plate, apply the anti-freeze solution.
5. Tighten the six-piece dish head wrench bolt (M10) (6) on the upper plate and then the M10 Washer (7) and the M10 Nut (8) (9).
6. Combine the six - side dish head wrench bolt (M10) (6) of the upper plate with the booster (4) of the base plate (approx. 10 mm/min_4 times).
7. Insert the ball (10) between the joined ball cup (3) (5).
8. Tighten the nut (9) so that it is fully secured to the support (4) and apply an anti-freeze solution.
9. Connect By-pass strap (11) to the upper plate and the base plate.
10. Lower the nut (8) and adjust it appropriately to obtain approval for the load.

ZBSHR

Single Ended Beam Load Cell



Description

ZBSHR-1T is a steel material Single Ended Beam type load cell. It's a compression type with a low-profile structure, allowing the summation of 4 or more units for use in applications such as forklifts and similar operations.

Specifications

Capacity(R.L.)	tf	1
Rated Output	mV / V	1.5 ± 0.01
Zero Balance	mV / V	0 ± 0.015
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.05
Hysteresis	% R.O.	≤ 0.05
Combined Error	% R.O.	≤ 0.05
Repeatability	% R.O.	≤ 0.03
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/2000
Division	mV / V	0.00075
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
Excitation	-Recommended -Maximum	V V
Resistance	-Input -Output -Insulation	Ω Ω MΩ
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel
Cable Specification	-	Ø1 x 4P x 60cm (4-Wire)
Safety Overload	% R.L.	150

Features

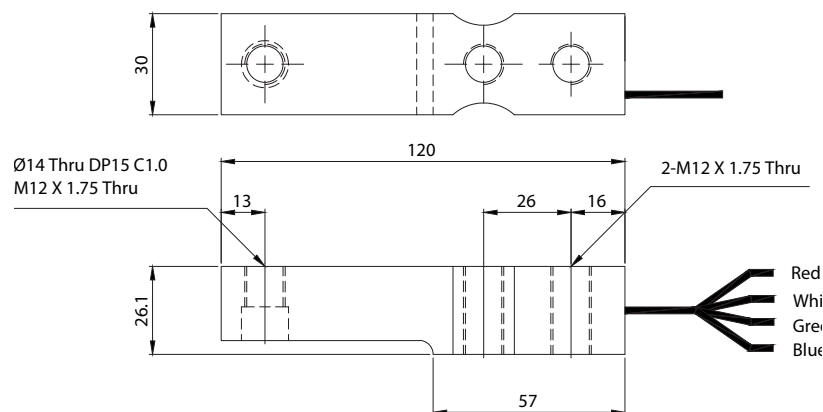
- Pressure type
- Designed according to IP66

Application

- Load cells for forklift safety diagnostics

Dimensions

► ZBSHR





INDUSTRIAL WEIGHING SOLUTION™

S-Beam Load Cell

SB / SBA / SBS / SBS-EXP / SBAS / SL

CAS has excellent technology in metering, and control, and provides high accuracy and precision load cells for various industrial environments.



SB | S-Beam Load Cell



Features

- Tensile type
- Protecting external shocks with steel covers

Option

- Rod end bearing type accessories
(20 to 500 kgf: M12 x 1.75)
(1-2tf: M18 x 1.5)

Application

- Material tester
- Tensile testing machine

Description

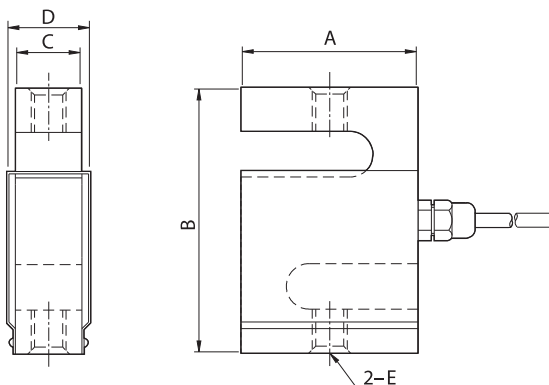
SB is a tensile type load cell of aluminium/steel material. Steel covers are attached to the outside of the load cell to protect against external shocks. Suitable for tensile scale, tensile material testing machines.

Specifications

Capacity(R.L.)	kgf	20, 50, 75, 100, 200, 250, 500, 1K, 2K
Rated Output	mV / V	2.0 ± 0.005
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤0.03
Hysteresis	% R.O.	≤0.03
Combined Error	% R.O.	≤0.03
Repeatability	% R.O.	≤0.01
Creep for 30min.	% R.O.	≤0.03
Return for 30min.	% R.O.	≤0.03
Resolution	-	≤1/3000
Division	mV / V	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤0.028 ≤0.015
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		430 ± 40 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Aluminum, Steel
Cable Specification	-	Ø5.4 x 4P x 3m (Urethane)
Safety Overload	% R.L.	150

Dimensions

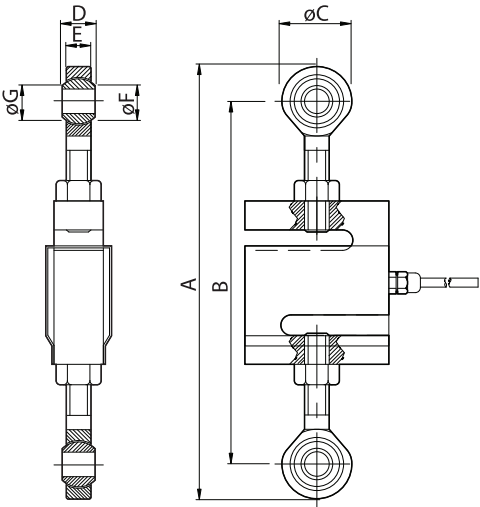
► SB



Capa.	A	B	C	D	E	Cable (m)
20~500kgf	70	80	24	32	M12X1.75	3
1~2tf	80	100	30	38	M18 X 1.5	

Accessory Dimensions

► SB (Rod end bearing)



Capa.	A	B	C	D	E	F	G
20~500kgf	211.6 (Max)	177.6 (Max)	34	16	12	12	15.4
1~2tf	308.6 (Max)	248.6 (Max)	60	23	22	18	21.9



Features

- Tensile type
- Designing according to IP65

Option

- Obtaining OIML C3 Approved (OIML R60)
- Acquiring NTEP class III 5000d Approved
- Rod end bearing type accessories
(25-100 kgf: M6 x 1.0)
(200-1tf: M12 x 1.75)
(2-5tf: M18 x 1.5)

Application

- Material tester
- Tensile testing machine

Description

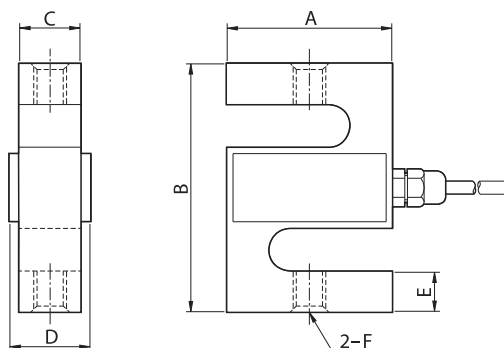
The SBA is a tensile type load cell of steel material. Suitable for tensile scale, tensile material testing machines.

Specifications

Capacity(R.L.)	kgf	25, 50, 100, 200, 500, 1K, 2K, 3k, 5K	
Rated Output	mV / V	3.0 ± 0.3	
Zero Balance	mV / V	0.0 ± 0.03	
Accuracy Class	-	C3	-
Non-Linearity	% R.O.	≤0.02	≤0.03
Hysteresis	% R.O.	≤0.02	≤0.03
Combined Error	% R.O.	≤0.02	≤0.03
Repeatability	% R.O.	≤0.01	≤0.01
Creep for 30min.	% R.O.	≤0.017	≤0.03
Return for 30min.	% R.O.	≤0.017	≤0.03
Resolution	-	≤1/5000	≤1/3000
Division	mV / V	0.0006	0.001
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤0.028 ≤0.015
Excitation	-Recommended -Maximum	V V	10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ	400 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Steel	
Cable Specification	-	Ø5.4 x 4P x 3m (Urethane)	
Safety Overload	% R.L.	150	

Dimensions

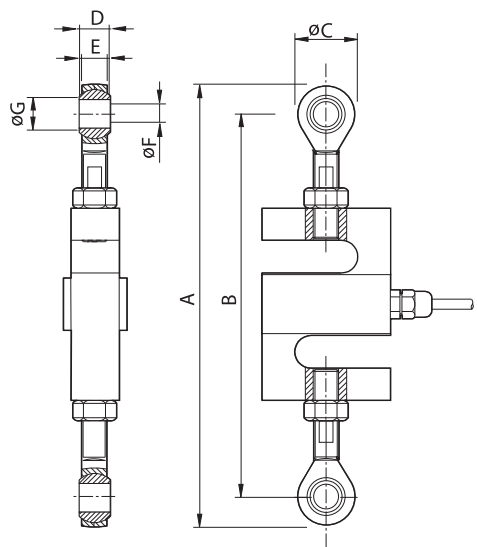
► SBA



Capa.	A	B	C	D	E	F	Cable (m)
25~100kgf	50.8	63.5	12.7	20	10.3	M6 X 1	3
200~500kgf	51	76	19	27	12.6	M12 X 1.75	
1tf	51	76	25.4	33	12.6	M12 X 1.75	
2~3tf	77	108	25.4	33	19	M18 X 1.5	
5tf	77	108	25.4	33	19.5	M18 X 1.5	

Accessory Dimensions

► SBA (Rod end bearing)



Capa.	A	B	C	D	E	F	G
25~100 kgf	134.1	115.6	18.5	9	6.8	9	12
200kgf~1tf	211.1	177.1	34	16	12	12	15.4
2~3tf	318	258	60	23	22	18	21.9
5tf	317	257	60	23	22	18	21.9

SBSS-Beam
Load Cell

Features

- Tension type
- Stainless steel material
- Hermetically sealed structure
- Designed according to IP66

Option

- Intrinsic safety explosion (Ex ia IIC T4)
- Explosion proof (Ex d IIC T4)
- Dust explosion (Ex tD A21 T135°C IP66)
- Rod End Bearing Type Accessory
(500 kgf: M12 x 1.75)
(1 to 2 tf: M18 x 1.5)
(5K: M24 x 2.0)

Application

- Crane Scale
- Material Testing Machine
- Tensile Testing Machine

Description

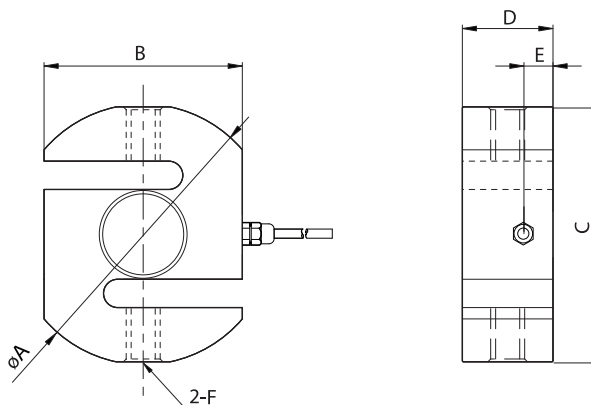
SBS is a stainless steel tensile type load cell. It is suitable for tensile type scale and tensile type material testing machine. It is made of stainless steel material and has IP66 waterproof and dustproof structure. It is suitable for humid environments.

Specifications

Capacity(R.L.)	kgf	500, 1K, 2K, 5K
Rated Output	mV / V	2.0 ± 0.002
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤0.05
Hysteresis	% R.O.	≤0.05
Combined Error	% R.O.	≤0.05
Repeatability	% R.O.	≤0.01
Creep for 30min.	% R.O.	≤0.03
Return for 30min.	% R.O.	≤0.03
Resolution	-	≤1/3000
Division	mV / V	0.001
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤0.03 ≤0.03
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		400 ± 25 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material & Plate	-	Stainless steel
Cable Specification	-	Ø5.4 x 4P x 5m (Urethane)
Safety Overload	% R.L.	150

Dimensions

► SBS



Capa.	A	B	C	D	E	F	Cable (m)
500kgf	92	70	90	32	10.3	M12 X 1.75	5
1~2tf	92	70	90	32	10.3	M18 X 1.5	
5tf	130	100	120	45	15	M24 X 2	

SBS-EXP

Explosion Proof
S-Beam Load Cell

Features

- Tension type
- Stainless steel material
- Explosion-proof structure (intrinsic safety, internal pressure, dust)
- Hermetically sealed structure
- Designed according to IP66

Option

- Intrinsic safety explosion (Ex ia IIC T4)
- Explosion proof (Ex d IIC T4)
- Dust explosion (Ex td A21 T135°C IP66)
- Rod End Bearing Type Accessory
(500 kgf: M12 x 1.75)
(1 to 2 tf: M18 x 1.5)
(5K: M24 x 2.0)

Application

- Crane Scale
- Material Testing Machine
- Tensile Testing Machine

Description

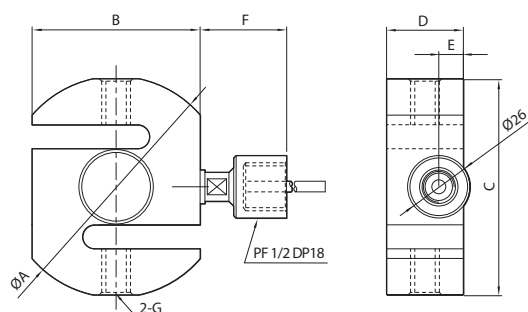
SBS-EXP is a stainless steel tensile type load cell. Designed as an explosion-proof construction, it is suitable for explosion hazardous areas and is suitable for tensile type scale and tensile type material testing machine. It is made of stainless steel material and has IP66 waterproof and dustproof structure. It is suitable for humid environments.

Specifications

Capacity(R.L.)	kgf	500, 1K, 2K, 5K
Rated Output	mV / V	2.0 ± 0.002
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.05
Hysteresis	% R.O.	≤ 0.05
Combined Error	% R.O.	≤ 0.05
Repeatability	% R.O.	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/2000
Division	mV / V	0.001
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.03 ≤ 0.014
Excitation	-Recommended -Maximum	V V
		10 28
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		400 ± 25 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to + 40
Operating Temperature Range	°C	-30 to + 80
Material	-	Stainless steel
Cable Specification	-	Ø5 x 4P x 5m (Urethane)
Safety Overload	% R.L.	150

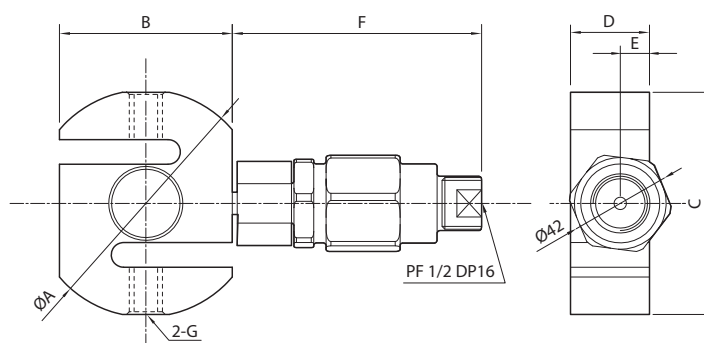
Dimensions

► Intrinsic safety



Capa.	A	B	C	D	E	F	G	Cable (m)
500kgf	92	70	90	32	10.3	36	M12 x 1.75	5
1~2tf	92	70	90	32	10.3	36	M18 x 1.5	
3tf	130	100	120	45	15	36	M24 x 2.0	

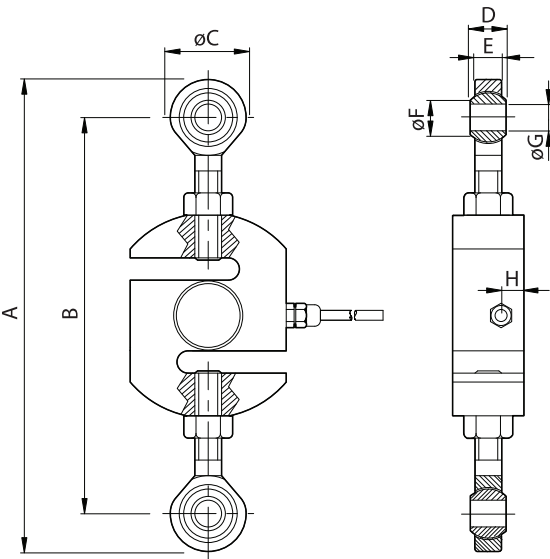
► Flameproof, Dust-proof



Capa.	A	B	C	D	E	F	G	Cable (m)
500kgf	92	70	90	32	10.3	101	M12 x 1.75	5
1~2tf	92	70	90	32	10.3		M18 x 1.5	
5tf	130	100	120	45	15		M24 x 2.0	

Accessory Dimensions

► SBS (Rod end bearing)



Capa.	A	B	C	D	E	F	G	H
500kgf	212	178	34	16	12	15.4	12	10.3
1~2tf	299.7	239.7	60	23	22	21.9	18	10.3
5tf	490	388	102	28	27	25.8	22	15

SBAS

S-Beam Load Cell



Description

SBAS is a tensile type load cell of aluminum. It is suitable for places where load cell installation space is small as a small tensile type load cell

Specifications

Capacity(R.L.)	kgf	10
Rated Output	mV / V	1.2 ± 0.12
Zero Balance	mV / V	0.0 ± 0.05
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.05
Hysteresis	% R.O.	≤ 0.05
Combined Error	% R.O.	≤ 0.05
Repeatability	% R.O.	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.05
Return for 30min.	% R.O.	≤ 0.05
Resolution	-	$\leq 1/2000$
Division	mV / V	0.0006
Temperature Effect on	-Zero Value -Output Value	$\% / 10^{\circ}\text{C}$ $\% / 10^{\circ}\text{C}$
		≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω M Ω
		400 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	$^{\circ}\text{C}$	-10 to +40
Operating Temperature Range	$^{\circ}\text{C}$	-30 to +80
Material & Plate	-	Aluminum
Cable Specification	-	$\varnothing 3 \times 4\text{P} \times 3\text{m}$ (PVC)
Safety Overload	% R.L.	150

Features

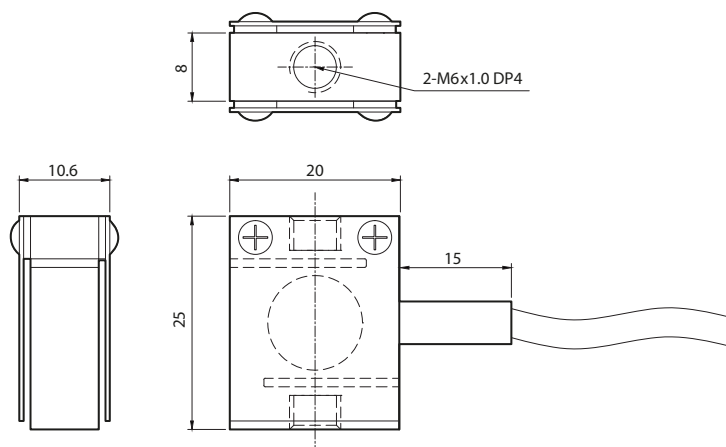
- Tension type
- Small load cell
- External shock protection through steel cover

Option

- Material Testing Machine
- Tensile Testing Machine

Dimensions

► SBAS



SL | S-Beam Load Cell



Features

- Tension type
- Overload protection structure
- Designed according to IP66

Option

- Shackle type accessory

Application

- Material Testing Machine
- Tensile Testing Machine

Description

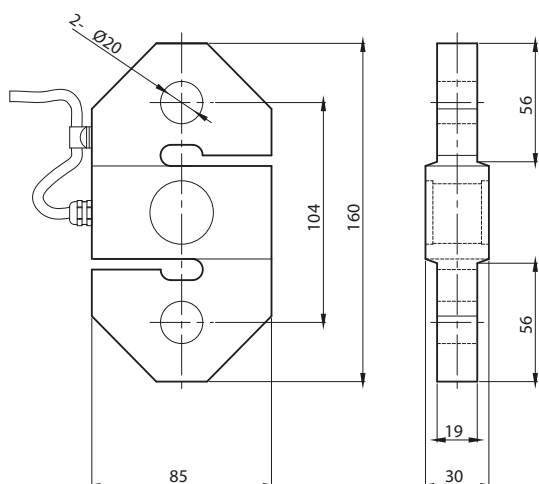
SL is a tensile type load cell of steel material. It is suitable for tensile type scale and tensile type material testing machine. This is a load cell that has safety certification in conjunction with the LM-200A overload protection system for cogs.

Specifications

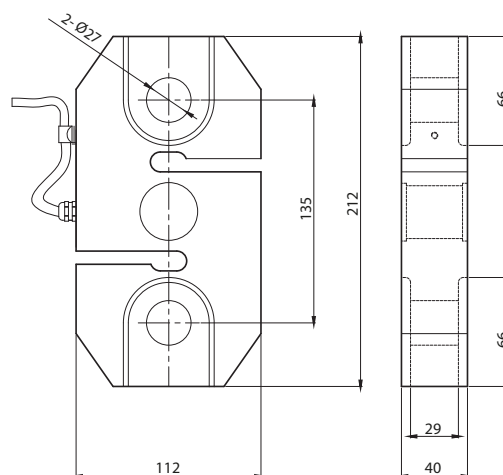
Capacity(R.L.)		kgf	2K, 5K
Rated Output		mV / V	2.0 ± 0.05
Zero Balance		mV / V	0.0 ± 0.03
Accuracy Class		-	-
Non-Linearity		% R.O.	≤ 0.05
Hysteresis		% R.O.	≤ 0.05
Combined Error		% R.O.	≤ 0.05
Repeatability		% R.O.	≤ 0.05
Creep for 30min.		% R.O.	≤ 0.05
Return for 30min.		% R.O.	≤ 0.05
Resolution		-	$\leq 1/2000$
Division		mV / V	0.001
Temperature Effect on	-Zero Value	%/10°C	≤ 0.05
	-Output Value	%/10°C	≤ 0.05
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	350 ± 3.5
	-Output	Ω	350 ± 3.5
	-Insulation	M Ω	> 2000
Compensated Temperature Range		°C	-10 to +40
Operating Temperature Range		°C	-30 to +80
Material & Plate		-	Steel
Cable Specification		-	$\varnothing 5.4 \times 4 \text{Px} 6.5 \text{m}$ (Urethane)
Safety Overload		% R.L.	150

Dimensions

► SL-2T



► SL-5T



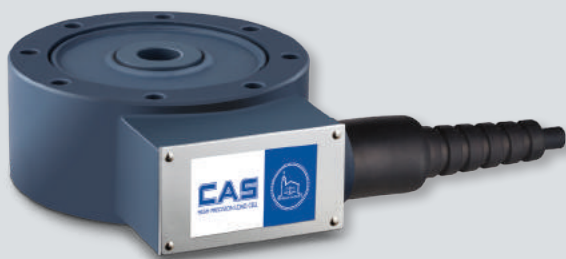


Disk Type Load Cell

LS / LS-NR / LS-EXP / LS-D / LSB / LSC / LSS / LSS-NR / LSS-EXP / LSW / LSW-HM / MNC / MNT / NMNC
SMN / CPA / CPAS / LSOC / LSOC2 / CHE / CHE-KM / ZWIT-15T / ZWITA-15T

CAS has excellent technology in metering, and control, and provides high accuracy and precision load cells for various industrial environments.





Description

LS is a disk type load cell of steel material. It is a sealed / tensioned / compression type load cell suitable for harsh industrial environments such as hoppers, tanks and silo scales.

Specifications

Capacity(R.L.)	tf	1, 2, 3, 5, 10, 20, 30, 50, 100, 200, 300	
Rated Output	mV / V	2.0 ± 0.005/3.0 ± 0.0075(for 200, 300 tf)	
Zero Balance	mV / V	0.0 ± 0.020	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤0.02	≤0.05
Hysteresis	% R.O.	≤0.02	≤0.05
Combined Error	% R.O.	≤0.02	≤0.05
Repeatability	% R.O.	≤0.01	≤0.02
Creep for 30min.	% R.O.	≤0.03	≤0.03
Return for 30min.	% R.O.	≤0.03	≤0.03
Resolution	-	≤1/5000	≤1/2000
Division	mV / V	0.0004	0.001
Temperature Effect on	-Zero Value	%/10°C	≤0.03
	-Output Value	%/10°C	≤0.03
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	350 ± 3.5
	-Output	Ω	350 ± 3.5
	-Insulation	MΩ	> 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Steel / Coating	
Cable Specification	-	Ø8 x 4P x 5m(10m) (PVC) Explosion-proof (Urethane)	
Safety Overload	% R.L.	150	

Features

- Tensile / Compression Type
- Hermetically sealed structure
- Designed according to IP67

Option

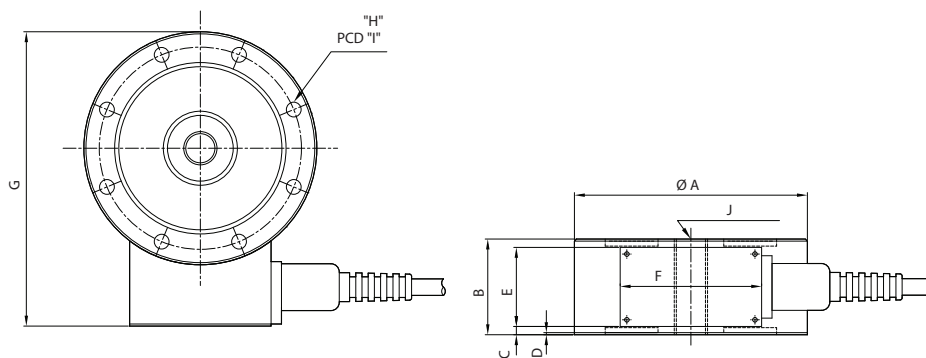
- Tensile Accessories (Rod End Bearing Type)
- Compression type accessories (Load button, ball type)
- LS-EXP / intrinsically safe explosion proof (Ex ia IIC T4)
- LS-EXP-D / Explosion proof (Ex d IIC T4)
- LS-EXP-TD / dust explosion proof (Ex tD A21 T135°C IP68)
- LS-NR (CE certified)

Application

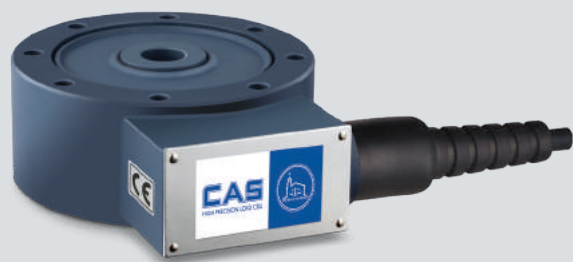
- Hopper, tank, silo scale
- Tensile / Compression Tester

Dimensions

► LS



Capa.	A	B	C	D	E	F	G	H	I	J	Cable(m)
1~3tf	112	46	4	1	38	68	141.5	8-ø7.1	97.2	M16X2	5
5tf	120	46	4				150.4	8-ø9	103.2	M18X1.5	
10tf	138	60	11				170	8-ø11	117.6	M24X2	
20~30tf	184	80	21				218.5	8-ø14	157.6	M39X2	10
50tf	200	60	7.8				235	12-ø14.5	170	M45X3	
100tf	278	90	20				314.8	16-ø16.3	229	M70X3	
200tf	355	108	35				392.7	12-ø26	298	M90X3	
300tf	355	108	35				392.7	12-ø28	300.5	M100X3	

LS-NRNoise Resistance
Disk Load Cell**Features**

- Tensile / Compression Type
- Hermetically sealed structure
- Built-in noise and surge protection circuit
- Obtained CE certification
- Designed according to IP67

Option

- Tensile Accessories (Rod End Bearing Type)
- Compression type accessories (Load button, ball type)

Application

- Hopper, tank, silo scale
- Tensile / Compression Tester

Description

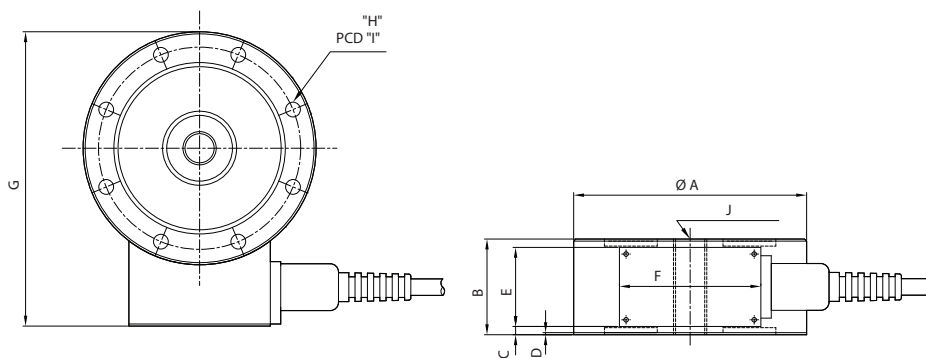
LS-NR is a disk type load cell, of steel material. It is a load cell with high electrical durability. The protection circuit inside the load cell protects against various noise, surge and lightning. Enclosed tension / compression type load cells suitable for harsh industrial environments such as hoppers, tanks and silo scales.

Specifications

Capacity(R.L.)	tf	1, 2, 3, 5, 10, 20, 30, 50, 100, 200, 300
Rated Output	mV / V	2.0±0.005
Zero Balance	mV / V	0.0±0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.02
Hysteresis	% R.O.	≤ 0.02
Combined Error	% R.O.	≤ 0.02
Repeatability	% R.O.	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/5000
Division	mV / V	0.0004
Temperature Effect on	- Zero Value - Output Value	%/10°C %/10°C
Excitation	- Recommended - Maximum	V V
Resistance	- Input - Output - Insulation	Ω Ω MΩ
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel / Coating
Cable Specification	-	Ø8 x 4P x 5m(10m) (PVC)
Safety Overload	% R.L.	150
Electrical Character	- Over Voltage - RS - Surge	V. % MHz kV
		75 AC/DC ±25% 80 ~ 1000MHz, 10V/m ±2

Dimensions

► LS-NR



Capa.	A	B	C	D	E	F	G	H	I	J	Cable(m)
1~3tf	112	46	4	1	38	68	141.5	8-ø7.1	97.2	M16X2	5
5tf	120	46	4				150.4	8-ø9	103.2	M18X1.5	
10tf	138	60	11				170	8-ø11	117.6	M24X2	
20~30tf	184	80	21				218.5	8-ø14	157.6	M39X2	10
50tf	200	60	7.8				235	12-ø14.5	170	M45X3	
100tf	278	90	20				314.8	16-ø16.3	229	M70X3	
200tf	355	108	35				392.7	12-ø26	298	M90X3	
300tf	355	108	35				392.7	12-ø28	300.5	M100X3	

LS-EXPExplosion Proof
Disk Load Cell

Description

LS-EXP is Canister type load cell of steel material. Designed as an explosion-proof structure, it is suitable for rugged industrial environments such as explosion-proof hoppers and tanks, silos and truck scales in explosion hazardous areas. It is made of steel material and has IP68 waterproof and dustproof structure.

Specifications

Capacity(R.L.)	tf	1, 2, 3, 5, 10, 20, 30, 50, 100, 200, 300	
Rated Output	mV / V	2.0 ± 0.005 / 3.0 ± 0.0075 (200tf, 300tf)	
Zero Balance	mV / V	0.0 ± 0.02	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.05
Hysteresis	% R.O.	≤ 0.02	≤ 0.05
Combined Error	% R.O.	≤ 0.02	≤ 0.05
Repeatability	% R.O.	≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/2000
Division	mV / V	0.0004	0.0001
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V	10 28
Resistance	-Input -Output -Insulation	Ω Ω MΩ	350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to + 40	
Operating Temperature Range	°C	-30 to + 80	
Material	-	Steel / Coating	
Cable Specification	-	Ø8 x 4P x 5m (10m) (Urethane)	
Safety Overload	% R.L.	150%	

Features

- Tensile / Compression Type
- Hermetically sealed structure
- Explosion-proof structure (intrinsic safety, internal pressure, dust)
- Designed according to IP68

Option

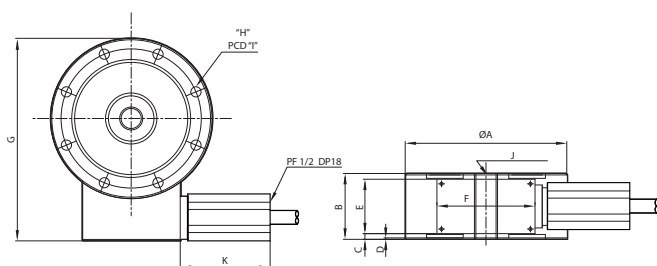
- Tensile Accessories (Rod End Bearing Type)
- Compression type accessories (Load button, ball type)
- LS-EXP / intrinsically safe explosion proof (Ex ia C T4) (1 ~ 300tf)
- LS-EXP-D / Explosion proof (Ex d C T4) (1 ~ 50tf)
- LS-EXP-TD / dust explosion proof (Ex tD A21 T135°C IP68) (1 ~ 50tf)

Application

- Hopper, tank, silo scale
- Tensile / Compression Tester

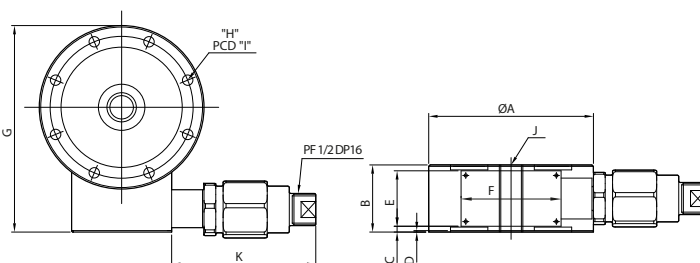
Dimensions

- Intrinsic Safety explosion proof, (1~300tf)
dust explosion proof (1~50tf)



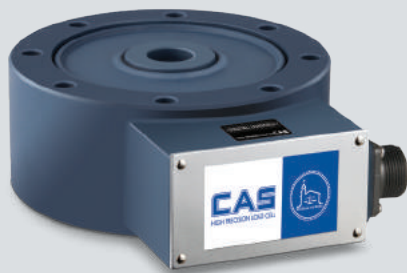
Capa.	A	B	C	D	E	F	G	H	I	J	K	Cable(m)
1~3tf	112	46	4	1	38	68	142.5	8-Ø7.1	97.2	M16 x 2	52	5
5tf	120	46	4				151.4	8-Ø9	103.2	M18 x 1.5		
10tf	138	60	11				171	8-Ø11	117.6	M24 x 2		
20~30tf	184	80	21				219.5	8-Ø14	157.6	M39 x 2	10	10
50tf	200	60	11				236	12-Ø14.5	170	M45 x 3		
100tf	278	90	2				315.8	16-Ø16.3	229	M70 x 3		
200tf	355	108	35	1	38	68	393.7	12-Ø26	298	M90 x 3		
300tf	355	108	35				393.7	12-Ø28	300.5	M100 x 3		

- Flameproof (1~50tf)



Capa.	A	B	C	D	E	F	G	H	I	J	K	Cable(m)
1~3tf	112	46	4	1	38	68	142.5	8-Ø7.1	97.2	M16 x 2	98	5
5tf	120	46	4				151.4	8-Ø9	103.2	M18 x 1.5		
10tf	138	60	11				171	8-Ø11	117.6	M24 x 2		
20~30tf	184	80	21				219.5	8-Ø14	157.6	M39 x 2	10	10
50tf	200	60	11				236	8-Ø14.5	170	M45 x 3		

LS-D | Digital Disk Load Cell



Features

- Tensile / Compression Type
- High output
- CE Approval
- Hermetically sealed structure
- Designed according to IP67

Option

- Tensile Accessories (Rod End Bearing Type)
- Compression type accessories (Load button, ball type)

Application

- Hopper, tank, silo scale
- Tensile / Compression Tester

Description

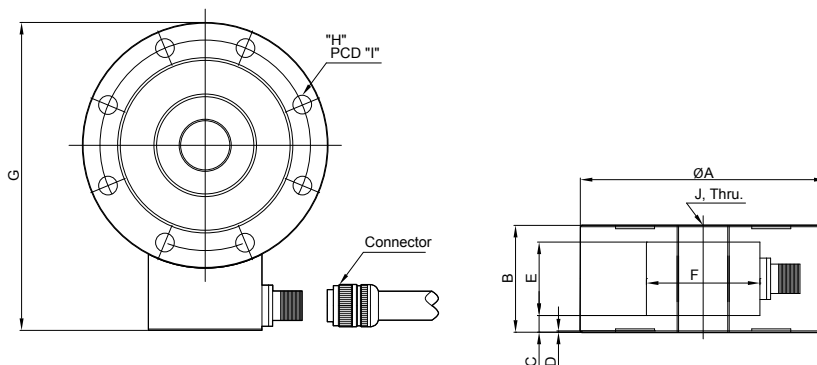
LS-D is a disk type load cell of steel material. It is possible to diagnose by connecting the load cells individually through the digital output, and when making the weighing system, it is easy and simple to adjust the weighing, compensate corners, check the trouble occurrence, and replace the load cell. Enclosed tension / compression type load cells suitable for harsh industrial environments such as hoppers, tanks and silo scales.

Specifications

Capacity(R.L.)		tf	20, 30, 100, 200, 300
Rated Output		counts	300,000
Zero Balance		counts	± 300
Non-Linearity		% R.O.	< 0.015
Hysteresis		% R.O.	< 0.015
Combined Error		% R.O.	< 0.015
Repeatability		% R.O.	< 0.01
Creep for 30min.		% R.O.	< 0.017
Temperature Effect on	- Zero Value	% R.O./10°C	0.014
	- Output Value	% R.O./10°C	0.011
Compensated Temperature Range		°C	-10 ~ +40
Operating Temperature Range		°C	-30 ~ +80
Excitation	- Minimum	V	6
	- Recommended	V	9
	- Maximum	V	24
Insulation		MΩ	≥ 2,000
Safety Overload		% R.C.	150
Material		-	Steel / Coating
Communication Method		-	RS-485 (2wire)
Communication Speed		kbit/sec	19.2
Max Cable Length for Communication		m	1,000
Warm-up Time from Cold Start		minutes	15
Asynchronous Interface Baudrate		Baud	9,600 ~ 115,200
Number of bus addresses		-	Max. 32

Dimensions

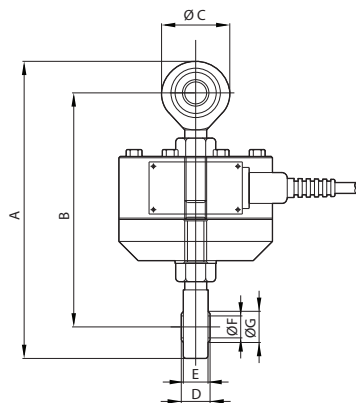
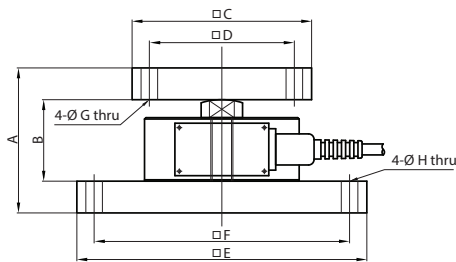
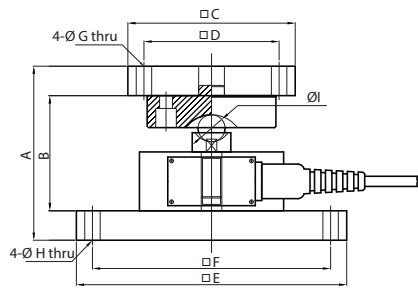
► LS-D



Capa.	A	B	C	D	E	F	G	H	I	J	Cable(m)
20~30tf	184	80	12.5	1	55	85	230.5	8-Ø14	157.6	M39 x 2	10
100tf	278	90	11.5				326.8	16-Ø16.3	229	M70 x 3	
200tf	355	108	26.5				404.7	12-Ø26	298	M90 x 3	
300tf	355	108	26.5				404.7	12-Ø28	298	M100 x 3	

Accessory Dimensions

► LS



► Ball type

Capa.	A	B	C	D	E	F	G	H	I
1~3tf	136.43	90.43	130 x 130	105 x 105	210 x 130	185 x 105	12	12	21.43
5tf	146.75	100.75			210 x 130	185 x 105		12	31.75
10tf	167.75	114.75			160 x 160	125 x 125		14	31.75
20~30tf	197.75	144.75			200 x 200	160 x 160		14	31.75

► Load button

Capa.	A	B	C	D	E	F	G	H
1~3tf	105	59	130 x 130	105 x 105	210 x 130	185 x 105	12	12
5tf	107	61	130 x 130	105 x 105	210 x 130	185 x 105	12	12
10tf	140	80	160 x 160	125 x 125	160 x 160	125 x 125	14	14
20~30tf	175	115	200 x 200	150 x 150	200 x 200	160 x 160	14	14
50tf	170	105	200 x 200	150 x 150	360 x 360	280 x 280	18	22.5
100tf	225	155	300 x 300	210 x 210	430 x 430	310 x 310	22	26
200tf	258	168	400 x 400	310 x 310	500 x 500	390 x 390	26	32
300tf	268	168	400 x 400	310 x 310	500 x 500	390 x 390	26	32

► Rod end bearing

Capa.	A	B	C	D	E	F	G
1~3tf	216	170	50	21	18	16	19.3
5tf	257	197	60	23	22	18	21.9
10tf	430	328	102	28	27	22	25.8
20~30tf	558	423	135	40	38	39	45

LSB | Disk Load Cell



Features

- Compression type
- high output
- Ball type accessory integral structure
- Designed according to IP66

Application

- Hopper, tank, silo scale
- Tensile / Compression Tester

Description

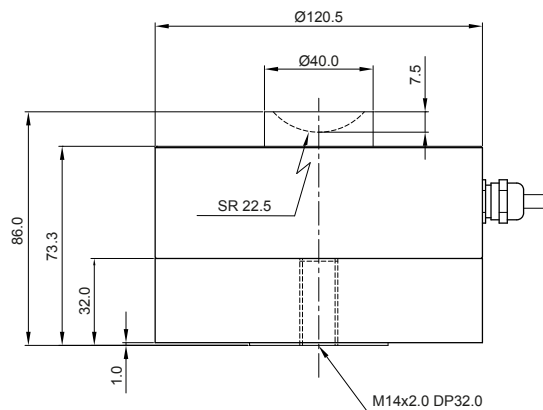
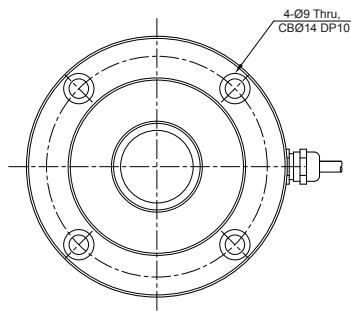
LSB is a disk type load cell of steel material. It is suitable for Hopper, Tank, Silo Scale

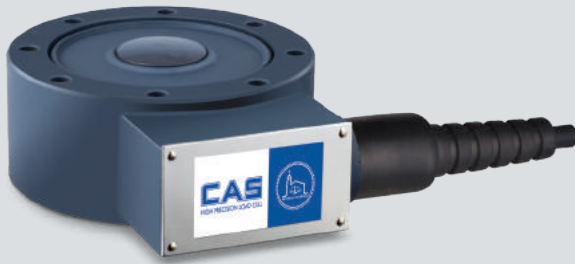
Specifications

Capacity(R.L.)	tf	10, 20, 30
Rated Output	mV / V	4.0 ± 0.01
Zero Balance	mV / V	0.0 ± 0.04
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	$\leq 1/3000$
Division	mV / V	0.0013
Temperature Effect on	-Zero Value -Output Value	≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V 15
Resistance	-Input -Output -Insulation	Ω Ω M Ω
Compensated Temperature Range	$^{\circ}\text{C}$	-10 to +40
Operating Temperature Range	$^{\circ}\text{C}$	-30 to +80
Material	-	Steel
Cable Specification	-	$\varnothing 5.4 \times 4\text{P} \times 10\text{m}$ (Urethane)
Safety Overload	% R.L.	150

Dimensions

► LSB





Description

LSC is a disk type load cell of steel material. It is suitable for Hopper, Tank, Silo Scale

Specifications

Capacity(R.L.)	tf	2, 5, 10, 20, 50, 100
Rated Output	mV / V	3.0 ± 0.0075
Zero Balance	mV / V	0.0 ± 0.03
Accuracy Class	-	-
Non-Linearity	% R.O.	≤0.05
Hysteresis	% R.O.	≤0.05
Combined Error	% R.O.	≤0.05
Repeatability	% R.O.	≤0.02
Creep for 30min.	% R.O.	≤0.03
Return for 30min.	% R.O.	≤0.03
Resolution	-	≤1/2000
Division	mV / V	0.0015
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
Excitation	-Recommended -Maximum	V V
Resistance	-Input -Output -Insulation	Ω Ω MΩ
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel / Coating
Cable Specification	-	Ø8 X 4P X 5m (10m) (PVC)
Safety Overload	% R.L.	150

Features

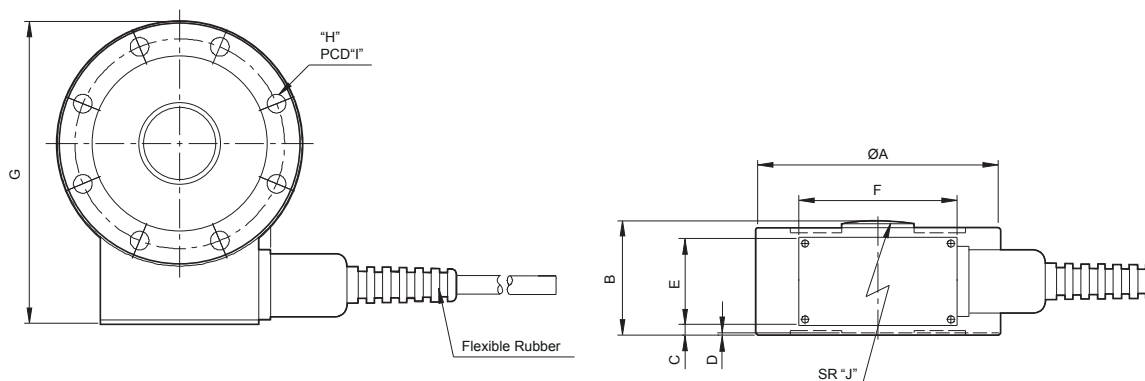
- Compression type
- Load Button Type accessory integral structure
- Hermetically sealed structure
- Designed according to IP67

Application

- Hopper, tank, silo scale
- Compression Tester

Dimensions

► LSC



Capa.	A	B	C	D	E	F	G	H	I	J	Cable(m)
2-5tf	105	35	1	1	30	65	130.7	8-ø7	90	100	5
10tf	120	45	2		38	68	150.4	8-ø9	104.5	100	
20tf	120	45	2		38	68	150.4	8-ø9	104.5	100	
50tf	190.5	57.2	6.4		38	68	225.2	12-ø13.5	159	200	10
100tf	209.2	82.6	19.1		38	68	244.5	4-ø18	171.5	200	

LSS

Disk
Load Cell

Description

LSS is a Stainless steel disk type load cell. It is suitable for Hopper, Tank, Silo Scale

Specifications

Capacity(R.L.)	tf	1, 2, 3, 5, 10, 20, 30, 50
Rated Output	mV / V	2.0 ± 0.0075
Zero Balance	mV / V	0.0 ± 0.020
Accuracy Class	-	-
Non-Linearity	% R.O.	≤0.03
Hysteresis	% R.O.	≤0.03
Combined Error	% R.O.	≤0.03
Repeatability	% R.O.	≤0.02
Creep for 30min.	% R.O.	≤0.03
Return for 30min.	% R.O.	≤0.03
Resolution	-	≤1/3000
Division	mV / V	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
Excitation	-Recommended -Maximum	V V
Resistance	-Input -Output -Insulation	Ω Ω MΩ
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Stainless steel
Cable Specification	-	Ø8 X 4P X 5m (10m) (PVC) Explosion-proof (Urethane)
Safety Overload	% R.L.	150

Features

- Tensile, Compression type
- Stainless Steel
- Hermetically sealed structure
- Designed according to IP68

Option

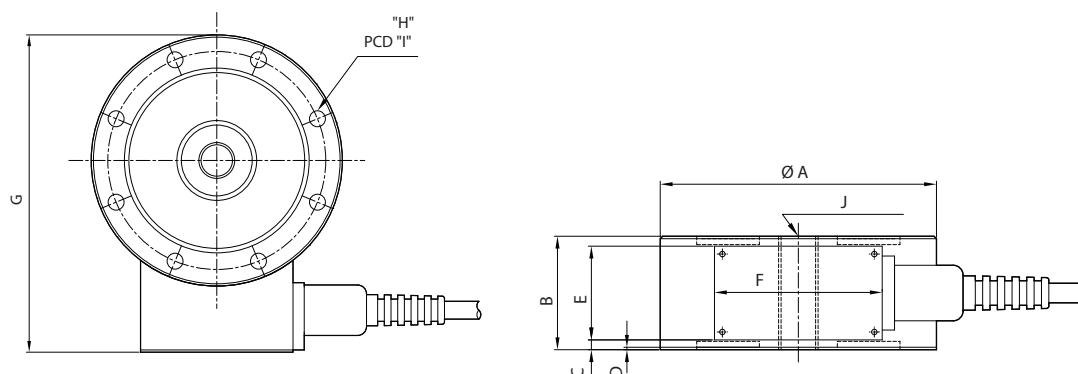
- Tensile type Accessories (Rod End Bearing Type)
- Compression type Accessories (Load button, ball type)
- LSS-EXP / intrinsically safe explosion proof (Ex ia II C T4)
- LSS-EXP-D / Explosion proof (Ex d IIC T4)
- LSS-EXP-TD / dust proof explosion proof (Ex tD A21 T135 °C IP68)
- LSS-NR (CE certified)

Application

- Hopper, tank, silo scale
- Tensile / Compression Tester

Dimensions

► LSS



Capa.	A	B	C	D	E	F	G	H	I	J	Cable(m)
1~3tf	112	46	4	1	38	68	141.5	8-ø7.1	97.2	M16X2	5
5tf	120	46	4				150.4	8-ø9	103.2	M18X1.5	5
10tf	138	60	11				170	8-ø11	117.6	M24X2	5
20~30tf	184	80	21				218.5	8-ø14	157.6	M39X2	10
50tf	200	60	7.8				235	12-ø14.5	170	M45X3	10

LSS-NR

Noise Resistance
Disk Load Cell



Description

LSS-NR is a Stainless steel disk type load cell. it's an electrically durable load cell. Protected against noise surge lightning with protective circuitry mounted inside the load cell. It is suitable for Hoppers, Tanks, and Silo Scales.

Specifications

Capacity(R.L.)	tf	1, 2, 3, 5, 10, 20, 50
Rated Output	mV / V	2.0±0.005
Zero Balance	mV / V	0.0±0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/3000
Division	mV / V	0.00067
Temperature Effect on	- Zero Value - Output Value	%/10°C %/10°C
		≤ 0.03 ≤ 0.03
Excitation	- Recommended - Maximum	V V
		10 15
Resistance	- Input - Output - Insulation	Ω Ω MΩ
		350 ± 3.5 350 ± 3.5 ≥ 500
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Stainless steel
Cable Specification	-	Ø8 x 4P x 5m / Ø8 x 4P x 10m (PVC)
Safety Overload	% R.L.	150
Electrical Character	- Over Voltage - RS - Surge	V. % MHz kV
		75 AC/DC ±25% 80 ~ 1000MHz, 10V/m ±2

Features

- Tensile / Compression Type
- Stainless Steel
- Hermetically sealed structure
- Built-in noise and surge protection circuit
- CE Approval
- Designed according to IP68

Option

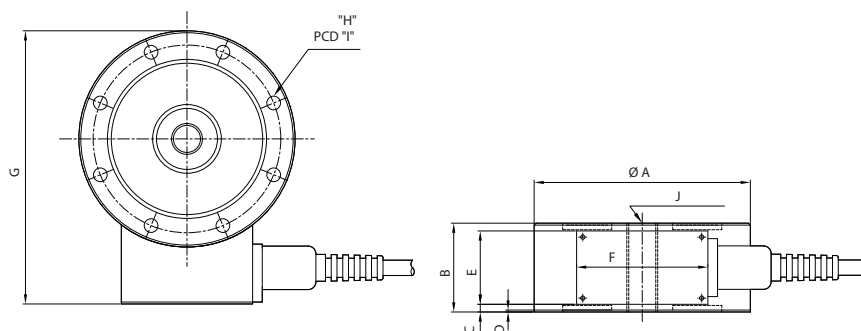
- Tensile Accessories (Rod end bearing Type)
- Compression type accessories (Load button, ball type)

Application

- Hopper, tank, silo scale
- Tensile / Compression Tester

Dimensions

► LSS-NR



Capa.	A	B	C	D	E	F	G	H	I	J	Cable(m)
1~3tf	112	46	4	1	38	68	141.5	8-ø7.1	97.2	M16X2	5
5tf	120	46	4				150.4	8-ø9	103.2	M18X1.5	5
10tf	138	60	11				170	8-ø11	117.6	M24X2	5
20~30tf	184	80	21				218.5	8-ø14	157.6	M39X2	10
50tf	200	60	7.8				235	12-ø14.5	170	M45X3	10

LSS-EXP

Explosion Proof
Disk Load Cell

Description

LSS-EXP is a Stainless steel disk type load cell. Designed with explosion proof structure, it is suitable for Hoppers, Tanks, and Silo Scales. Stainless and waterproof, suitable for humid environments.



Features

- Tensile / Compression Type
- Stainless Steel
- Hermetically sealed structure
- Explosion-proof structure (intrinsic safety, internal pressure, dust)
- Designed according to IP68

Option

- Tensile Accessories (Rod End Bearing Type)
- Compression type accessories (rod button, ball type)
- LSS-EXP / intrinsically safe explosion proof (Ex ia II C T4)
- LSS-EXP-D / Explosion proof (Ex d IIC T4)
- LSS-EXP-TD / dust explosion proof (Ex td A21 T135°C IP68)

Application

- Hopper, tank scale
- Tensile / Compression Tester

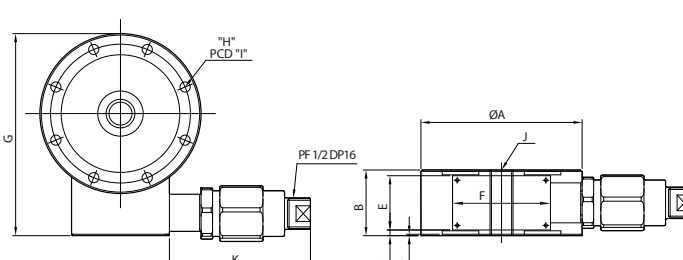
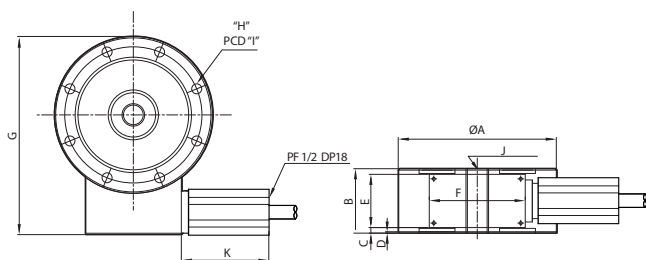
Specifications

Capacity(R.L.)	tf	1, 2, 3, 5, 10, 20, 30, 50
Rated Output	mV / V	2.0 ± 0.005
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/3000
Division	mV / V	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V
		10 28
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to + 40
Operating Temperature Range	°C	-30 to + 80
Material	-	Stainless steel
Cable Specification	-	Ø8 x 4P x 5/10m (Urethane)
Safety Overload	% R.L.	150%

Dimensions

► Intrinsic Safety explosion , dust explosion proof

► Flameproof

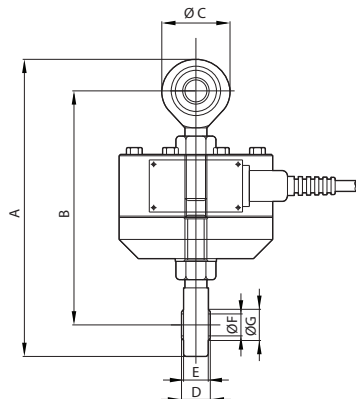
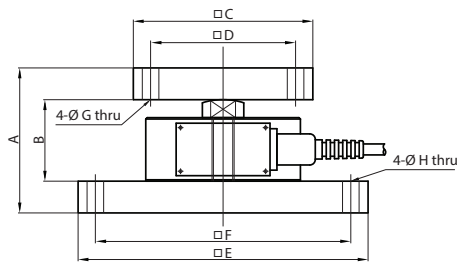
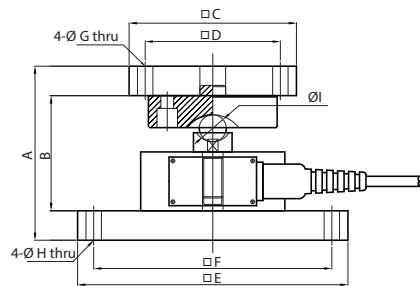


Capa.	A	B	C	D	E	F	G	H	I	J	Cable (m)
1~3tf	112	46	4				142.5	8-Ø7.1	97.2	M16 x 2	5
5tf	120	46	4				151.4	8-Ø9	103.2	M18 x 1.5	
10tf	138	60	11	1	38	68	171	8-Ø11	117.6	M24 x 2	
20~30tf	184	80	21				219.5	8-Ø14	157.6	M39 x 2	10
50tf	200	60	7.8				236	12-Ø14.5	170	M45 x 3	

Capa.	A	B	C	D	E	F	G	H	I	J	K	Cable (m)
1~3tf	112	46	4				142.5	8-Ø7.1	97.2	M16 x 2	98	5
5tf	120	46	4				151.4	8-Ø9	103.2	M18 x 1.5		
10tf	138	60	11	1	38	68	171	8-Ø11	117.6	M24 x 2		
20~30tf	184	80	21				219.5	8-Ø14	157.6	M39 x 2	98	10
50tf	200	60	11				236	8-Ø14.5	170	M45 x 3		

Accessory Dimensions

► LSS



► Ball type

Capa.	A	B	C	D	E	F	G	H	I
1~3tf	136.43	90.43	130 x 130	105 x 105	210 x 130	185 x 105	12	12	21.43
5tf	146.75	100.75			210 x 130	185 x 105		12	31.75
10tf	167.75	114.75			160 x 160	125 x 125		14	31.75
20~30tf	197.75	144.75			200 x 200	160 x 160		14	31.75

► Load button

Capa.	A	B	C	D	E	F	G	H
1~3tf	105	59	130 x 130	105 x 105	210 x 130	185 x 105	12	12
5tf	107	61	130 x 130	105 x 105	210 x 130	185 x 105	12	12
10tf	140	80	160 x 160	125 x 125	160 x 160	125 x 125	14	14
20~30tf	175	115	200 x 200	150 x 150	200 x 200	160 x 160	14	14
50tf	170	105	200 x 200	150 x 150	360 x 360	280 x 280	18	22.5

► Rod end bearing

Capa.	A	B	C	D	E	F	G
1~3tf	216	170	50	21	18	16	19.3
5tf	257	197	60	23	22	18	21.9
10tf	430	328	102	28	27	22	25.8
20~30tf	558	423	135	40	38	39	45

LSW

Disk Load Cell



Features

- Tensile / Compression Type
- hollow type
- Hermetically sealed structure
- Designed according to IP67

Application

- Compression Tester

Description

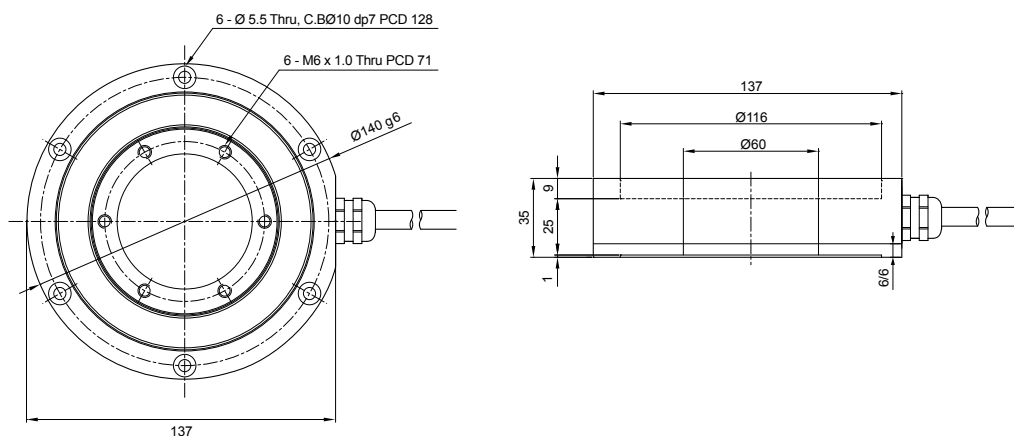
LSW is a low profile disk type load cell of steel material. It is suitable for compression tester and load control system

Specifications

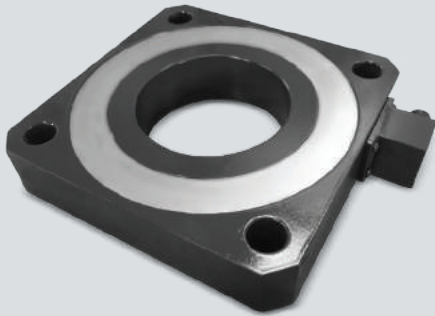
Capacity(R.L.)	tf	1, 2, 3, 5
Rated Output	mV / V	1.0 ± 0.05
Zero Balance	mV / V	0.0 ± 0.015
Accuracy Class	-	-
Non-Linearity	% R.O.	≤0.05
Hysteresis	% R.O.	≤0.05
Combined Error	% R.O.	≤0.05
Repeatability	% R.O.	≤0.02
Creep for 30min.	% R.O.	≤0.03
Return for 30min.	% R.O.	≤0.03
Resolution	-	≤1/2000
Division	mV / V	0.0005
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤0.05 ≤0.05
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel / Coating
Cable Specification	-	Ø5.4 X 4P X 10m (10m) (PVC)
Safety Overload	% R.L.	150

Dimensions

► LSW



LSW-HM

Disk
Load Cell

Description

LSW-HM is a low profile disk type load cell of steel material. It is suitable for compression tester and load control system

Specifications

Capacity(R.L.)		tf	3.5
Rated Output	mV / V		1.0 ± 0.1
Zero Balance	mV / V		0.0 ± 0.005
Accuracy Class	-		-
Non-Linearity	% R.O.		≤ 0.10
Hysteresis	% R.O.		≤ 0.05
Combined Error	% R.O.		≤ 0.10
Repeatability	% R.O.		≤ 0.03
Creep for 30min.	% R.O.		≤ 0.03
Return for 30min.	% R.O.		≤ 0.03
Resolution	-		≤ 1/1000
Division	mV / V		0.001
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.05 ≤ 0.05
Excitation	-Recommended -Maximum	V V	10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ	420 ± 30 350 ± 3.5 > 2000
Compensated Temperature Range	°C		-10 to +40
Operating Temperature Range	°C		-30 to +80
Material	-		Steel / Coating
Cable Specification	-		5 X 4P X 1.5m (Teflon)
Safety Overload	% R.L.		150

Features

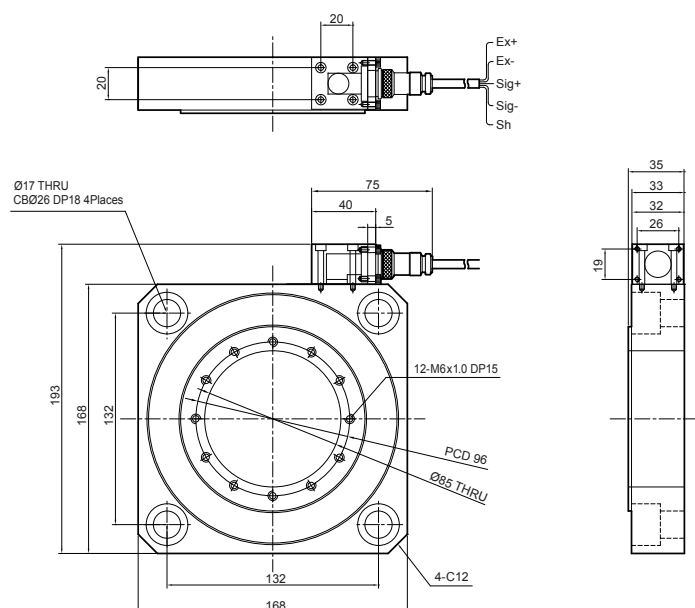
- Compression Type
- hollow type
- Designed according to IP66

Application

- Compression Tester

Dimensions

► LSW-HM



MNC | Disk Load Cell



Features

- Compression Type
- Stainless steel material (50kgf~20tf)
Steel material (5~20f)
- Hermetically sealed structure
- Load button type accessory integral structure
- Designed according to IP67

Application

- Semiconductor process
- Testing and metering system
- Compression Tester

Description

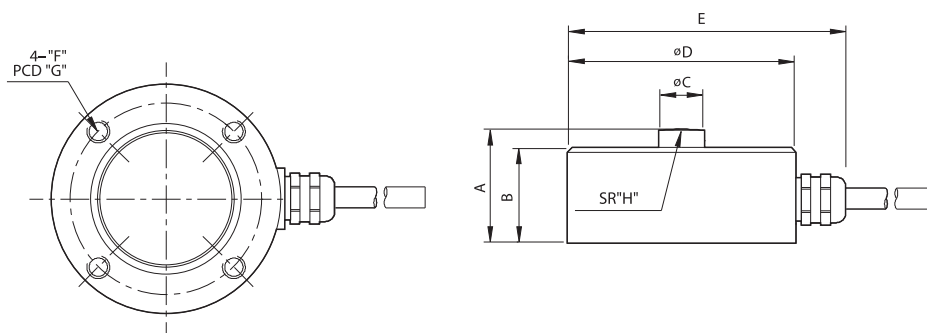
MNC is a stainless steel Miniature Disk type load cell. A compacted type load cell with enclosed structure can be used in a small amount of space and is suitable for various test equipment and metering systems, including semiconductor processes

Specifications

Capacity(R.L.)	kgf	50, 100, 200, 500, 1K, 2K, 5K, 10K, 20K
Rated Output	mV / V	2.0 ± 0.005
Zero Balance	mV / V	0.0 ± 0.06
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.15
Hysteresis	% R.O.	≤ 0.15
Combined Error	% R.O.	≤ 0.15
Repeatability	% R.O.	≤ 0.05
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/600
Division	mV / V	0.003
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
Excitation	-Recommended -Maximum	V V
Resistance	-Input -Output -Insulation	Ω Ω MΩ
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Stainless steel (50kgf ~ 2tf) Steel (5 ~ 20tf)
Cable Specification	-	Ø5.4 X 4P X 3m (5m) (Urethane)
Safety Overload	% R.L.	150

Dimensions

► MNC



Capa.	A	B	C	D	E	F	G	H	Cable(m)
50~2K	25	21	10	50	64.5	M5 X 0.8 DP 7	42	50	3
5K	40	35	20	98	112.5	M6 X 1.0 DP 8	72	150	5
10K	45	40	20	98	112.5	M6 X 1.0 DP 8	72	150	
20K	50	45	20	118	132.5	M8 X 1.25 DP 10	90	250	



Description

MNT is a stainless steel Miniature Disk type load cell. It is suitable for various testing equipment and metering systems, including semiconductor processes, and can be used in a small amount of space for installation by a sealed-typed load cell.

Specifications

Capacity(R.L.)	kgf	50, 100, 200, 500, 1K, 2K
Rated Output	mV / V	2.0 ± 0.005
Zero Balance	mV / V	0.0 ± 0.06
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.15
Hysteresis	% R.O.	≤ 0.15
Combined Error	% R.O.	≤ 0.15
Repeatability	% R.O.	≤ 0.05
Creep for 30min.	% R.O.	≤ 0.1
Return for 30min.	% R.O.	≤ 0.1
Resolution	-	≤ 1/600
Division	mV / V	0.003
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.05 ≤ 0.05
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		420 ± 30 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Stainless steel
Cable Specification	-	Ø5.4 X 4P X 3m (Urethane)
Safety Overload	% R.L.	150

Features

- Tension application
- Stainless Steel
- Hermetically sealed structure
- Designed according to IP67

Option

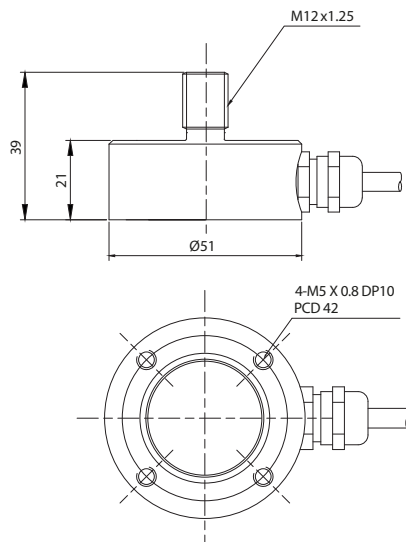
- Tension type accessory

Application

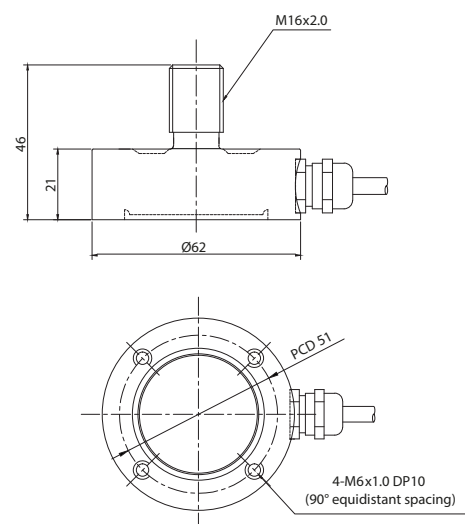
- Semiconductor process
- Testing and metering system
- Tensile tester

Dimensions

► MNT (50~500kgf)

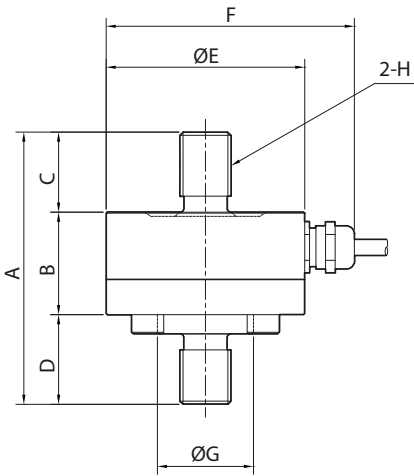


► MNT (1, 2tf)



Accessory Dimensions

► MNT



Capa.	A	B	C	D	E	F	G	H
50 ~500kgf	70	27	18	25	51	67	20	M12 x 1.25
1~2K	85	32	25	28	62	77.5	30	M16 x 2.0

NMNC

Disk
Load Cell

Description

NMNC is a Stainless steel Miniature Disk type load cell. A compacted type load cell can be used in a small amount of space and is suitable for various test equipment and metering systems, including semiconductor processes.

Specifications

Capacity(R.L.)	kgf	50, 100, 200, 500, 1K, 2K, 3K
Rated Output	mV / V	1.0 ± 0.1/2.0 ± 0.2 (for 1~3tf)
Zero Balance	mV / V	0.0 ± 0.1
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.5
Hysteresis	% R.O.	≤ 0.5
Combined Error	% R.O.	≤ 0.5
Repeatability	% R.O.	≤ 0.1
Creep for 30min.	% R.O.	≤ 0.5
Return for 30min.	% R.O.	≤ 0.5
Resolution	-	≤ 1/200
Division	mV / V	0.005
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.05 ≤ 0.1
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		400 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Stainless steel
Cable Specification	-	Ø3 X 4P X 3m (PVC)
Safety Overload	% R.L.	150

Features

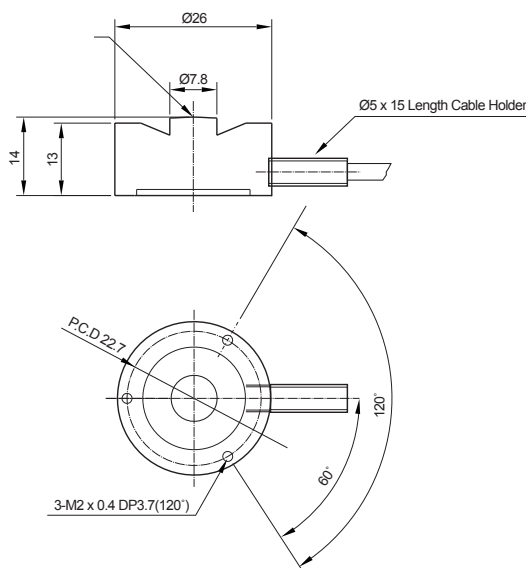
- Compression application
- Stainless steel material
- Designed according to IP65

Application

- Semiconductor process
- Testing and metering system
- Compression tester

Dimensions

► NMNC



SMN | Disk Load Cell



Features

- Compression application
- Designed according to IP65

Application

- Semiconductor process
- Testing and metering system
- Compression tester

Description

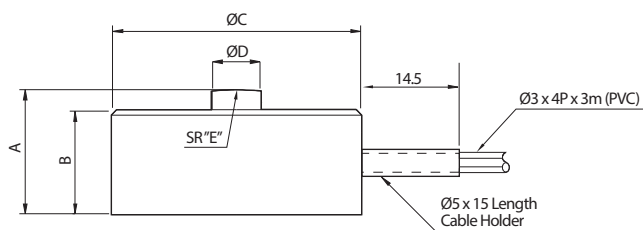
SMN is a Miniature Disk type of Aluminum/Stainless steel. This compacted type load cell can be used in a small amount of space and is suitable for various test equipment and metering systems, including semiconductor processes.

Specifications

Capacity(R.L.)	kgf	1, 2, 5, 10, 20, 30, 50, 100, 200, 300, 500, 1K, 2K
Rated Output	mV / V	0.5 ± 0.1 (for 1, 2, 5 kgf), 1.0 ± 0.1
Zero Balance	mV / V	0.0 ± 0.1
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 2.0
Hysteresis	% R.O.	≤ 2.0
Combined Error	% R.O.	≤ 2.0
Repeatability	% R.O.	≤ 1.0
Creep for 30min.	% R.O.	≤ 1.0
Return for 30min.	% R.O.	≤ 1.0
Resolution	-	-
Division	mV / V	0.02
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.05 ≤ 0.1
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Aluminum: 1~5kgf Stainless steel: 10kgf~2tf
Cable Specification	-	Ø3 X 4P X 3m (PVC)
Safety Overload	% R.L.	150

Dimensions

► SMN



Capa.	A	B	C	D	E	Cable (m)
1 ~100 kgf	11	9	20	3	20	3
200kgf ~ 2tf	16	15	20	4	20	

CPA | Disk Load Cell



Description

CPA is a Low Profile Disk type load cell of steel material. Compression type load cell is suitable for low deck high capacity scale application environments, such as mobile accumulators.

Specifications

Capacity(R.L.)	kgf	500, 1K, 2K, 3K, 5K
Rated Output	mV / V	1.7 ± 0.17
Zero Balance	mV / V	0.0 ± 0.016
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.05
Hysteresis	% R.O.	≤ 0.05
Combined Error	% R.O.	≤ 0.05
Repeatability	% R.O.	≤ 0.03
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/2000
Division	mV / V	0.00085
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
Excitation	-Recommended -Maximum	V V
Resistance	-Input -Output -Insulation	Ω Ω MΩ
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel
Cable Specification	-	Ø4 X 4P X 0.62m (PVC)
Safety Overload	% R.L.	150

Features

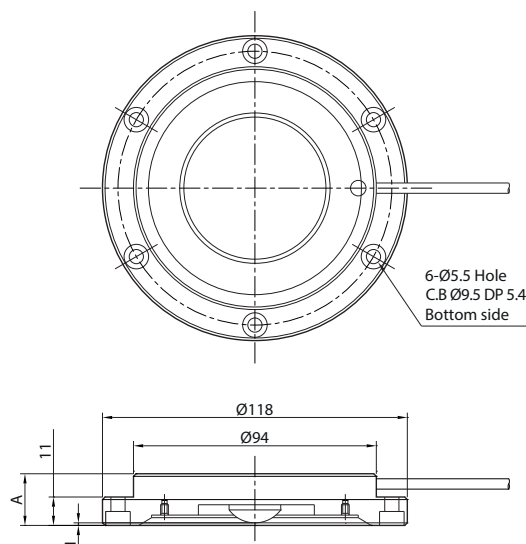
- Compression application
- All-inclusive structure of load application and joints
- Designed according to IP65

Application

- Mobile accumulator

Dimensions

► CPA



Capa.	A
500kgf/1tf	20
2~5tf	22

CPAS | Disk Load Cell



Features

- Compression application
- All-inclusive structure of load application and joints
- Designed according to IP65

Application

- Mobile accumulator

Description

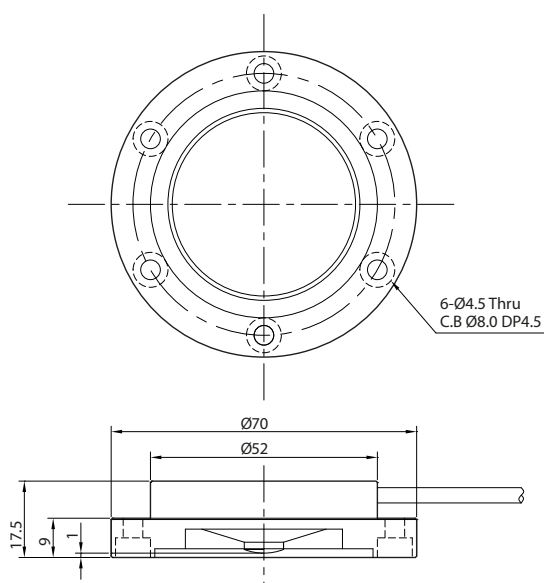
CPAS is a Low Profile Disk type load cell of steel material. Compression type load cell is suitable for low deck high capacity scale application environments, such as mobile accumulators.

Specifications

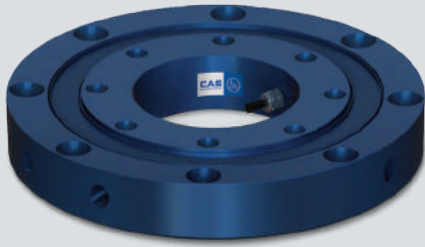
Capacity(R.L.)		tf	3
Rated Output		mV / V	1.2 ± 0.005
Zero Balance		mV / V	0.0 ± 0.005
Accuracy Class		-	-
Non-Linearity		% R.O.	≤ 0.3
Hysteresis		% R.O.	≤ 0.3
Combined Error		% R.O.	≤ 0.3
Repeatability		% R.O.	≤ 0.03
Creep for 30min.		% R.O.	≤ 0.03
Return for 30min.		% R.O.	≤ 0.03
Resolution		-	$\leq 1/300$
Division		mV / V	0.004
Temperature Effect on	-Zero Value	%/10°C	≤ 0.03
	-Output Value	%/10°C	≤ 0.05
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	2400 ± 240
	-Output	Ω	2000 ± 20
	-Insulation	M Ω	> 2000
Compensated Temperature Range		°C	-10 to +40
Operating Temperature Range		°C	-30 to +80
Material		-	Steel
Cable Specification		-	$\varnothing 3 \times 4P \times 0.52m$ (PVC)
Safety Overload		% R.L.	150

Dimensions

► CPAS



LSOC | Disk Load Cell



Description

LSOC is a Low Profile Disk type load cell of steel material. A hollow type of compression type load cell in an enclosed structure is suitable for a specifically-equipped vehicle and cargo truck bracket load measurement system that requires safety. A built-in safety device structure against overload ensures safety.

Specifications

Capacity(R.L.)	tf	5
Rated Output	mV / V	2.0 ± 0.2
Zero Balance	mV / V	0.0 ± 0.01
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.2
Hysteresis	% R.O.	≤ 0.1
Combined Error	% R.O.	≤ 0.1
Repeatability	% R.O.	≤ 0.1
Creep for 30min.	% R.O.	≤ 0.01
Return for 30min.	% R.O.	≤ 0.01
Resolution	-	≤ 1/500
Division	mV / V	0.004
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.05 ≤ 0.05
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		410 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel / Coating
Cable Specification	-	Ø5.4 X 4P X 1.2m (Urethane)
Safety Overload	% R.L.	150

Features

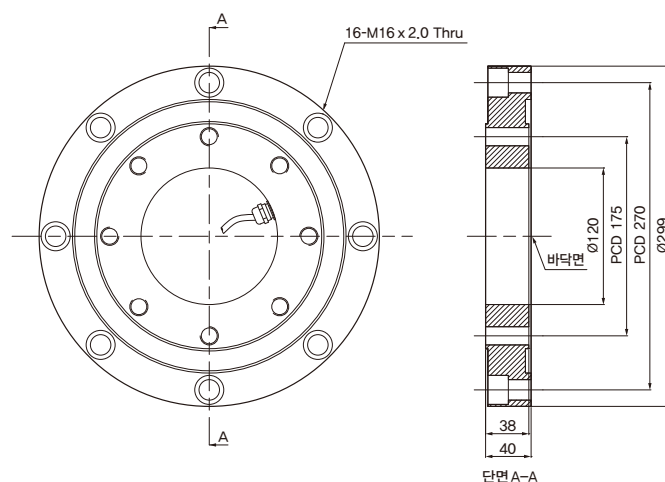
- Compression application
- Hermetically sealed structure
- Designed according to IP68

Application

- Safety of the specifically-equipped vehicle
- A Cargo bracket

Dimensions

► LSOC



LSOC2

Disk Load Cell



Features

- Compression application
- Designed according to IP66

Application

- Safety of the specifically-equipped vehicle
- A Cargo bracket

Description

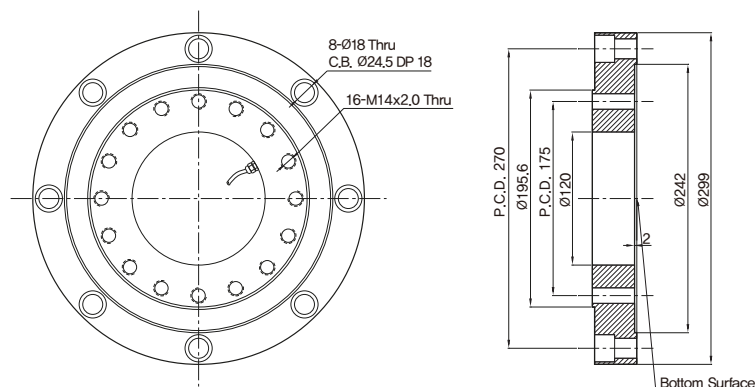
LSOC2 is a Low Profile Disk type load cell of steel material. A hollow type of compression type load cell in an enclosed structure is suitable for a specifically-equipped vehicle and cargo truck bracket load measurement system that requires safety. A built-in safety device structure against overload ensures safety.

Specifications

Capacity(R.L.)	tf	5
Rated Output	mV / V	1.0 ± 0.1
Zero Balance	mV / V	0.0 ± 0.01
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.2
Hysteresis	% R.O.	≤ 0.1
Combined Error	% R.O.	≤ 0.1
Repeatability	% R.O.	≤ 0.1
Creep for 30min.	% R.O.	≤ 0.01
Return for 30min.	% R.O.	≤ 0.01
Resolution	-	≤ 1/500
Division	mV / V	0.004
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.05 ≤ 0.05
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		410 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel / Electroless Nickel Plating
Cable Specification	-	Ø5.4 X 4P X 1.2m (Urethane)
Safety Overload	% R.L.	150

Dimensions

► LSOC2



CHE | Disk Load Cell



Description

CHE is a Center hole Disk type load cell of steel material. This compression type load cell is suitable for various compression tests and civil-related compression tests

Specifications

Capacity(R.L.)	tf	20, 50, 100, 150, 200
Rated Output	mV / V	1.5 ± 0.0075
Zero Balance	mV / V	0.0 ± 0.015
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 1.0
Hysteresis	% R.O.	≤ 1.0
Combined Error	% R.O.	≤ 1.0
Repeatability	% R.O.	≤ 0.2
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/100
Division	mV / V	0.015
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		400 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Load Cell: Steel / Electroless Nickel Plating Housing: Steel / Powder Coating
Cable Specification	-	Ø8 X 4P X 10m (PVC)
Safety Overload	% R.L.	150

Features

- Compression Type
- hollow type
- Designed according to IP66

Option

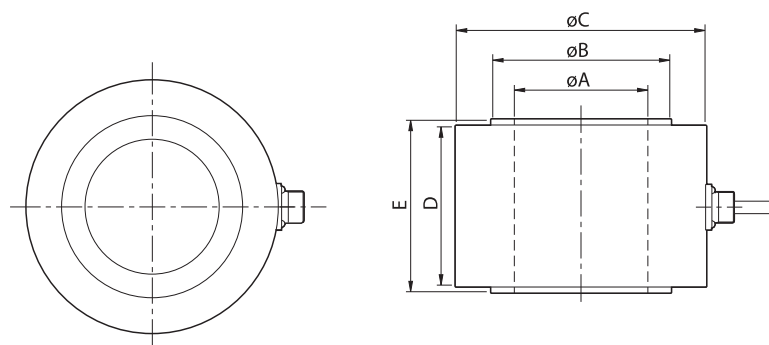
- Compression accessories (pressurized plate)

Application

- Compression Tester

Dimensions

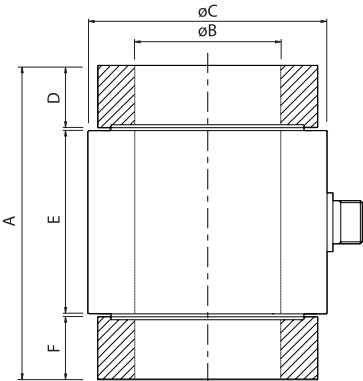
► CHE



Capa.	TYPE	A	B	C	D	E	Cable(m)
20 tf	-	35	45	75	69	75	10
50 tf	-	50	67	100	69	75	
100 tf	A	75	99	123	94	100	
	B	100	119	145	94	100	
150 tf	A	75	109	135	94	100	
	B	125	148	178	104	110	
200 tf	-	125	155	186	104	110	

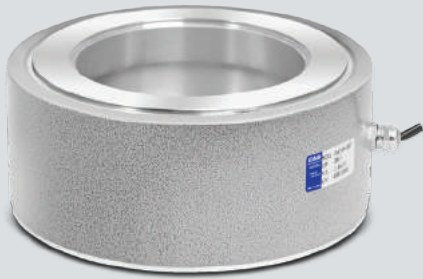
Accessory Dimensions

► CHE



Capa.	TYPE	A	B	C	D	E	F
20 tf	-	135	35	75	32	69	32
50 tf	-	116	50	100	22	69	22
100 tf	A	161	75	123	32	94	32
	B	161	100	145	32	94	32
150 tf	A	167	75	135	35	94	35
	B	177	125	178	35	104	35
200 tf	-	191	125	186	42	104	42

CHE-KM

Disk
Load Cell

Description

CHE-KM is a Center hole Disk type loadcell of aluminum material. As a compressed type loadcell, it is suitable for various compress test and civil related tests

Specifications

Capacity(R.L.)		tf	6, 10, 20, 30
Rated Output		mV / V	1.0 ± 0.007
Zero Balance		mV / V	0.0 ± 0.02
Accuracy Class		-	-
Non-Linearity		% R.O.	≤ 1.0
Hysteresis		% R.O.	≤ 1.0
Combined Error		% R.O.	≤ 1.0
Repeatability		% R.O.	≤ 0.2
Creep for 30min.		% R.O.	≤ 0.015
Return for 30min.		% R.O.	≤ 0.015
Resolution		-	≤ 1/100
Division		mV / V	0.01
Temperature Effect on	-Zero Value	%/10°C	≤ 0.05
	-Output Value	%/10°C	≤ 0.05
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	800 ± 20
	-Output	Ω	700 ± 7
	-Insulation	MΩ	> 2000
Compensated Temperature Range		°C	-10 to +40
Operating Temperature Range		°C	-30 to +80
Material		-	Load Cell: Steel / Electroless Nickel Plating Housing: Steel / Powder Coating
Cable Specification		-	Ø5.4 X 4P X 5.16 m(Urethane)
Safety Overload		% R.L.	150

Features

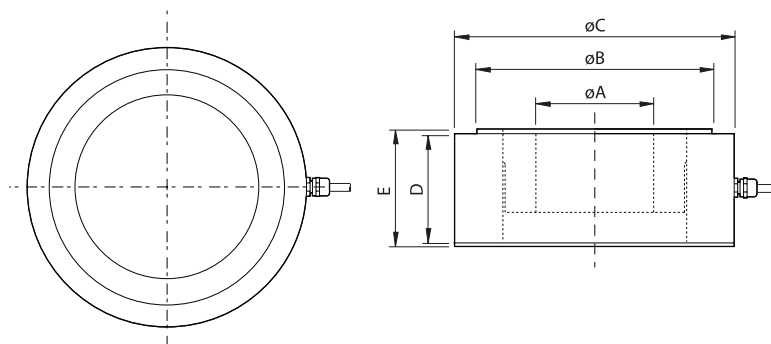
- Compression Type
- hollow type
- Designed according to IP66

Application

- Compression Tester

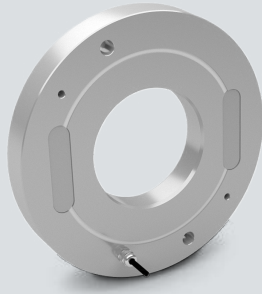
Dimensions

► CHE-KM



Capa.	A	B	C	D	E	Cable(m)
6 tf	32.1	75	95	51	55	5.16
10 tf	32.1	90	105	51	60	
20 tf	72.1	160	190	74	80	
30 tf	72.1	160	190	74	80	

ZWIT-15T

Disk
Load Cell

Features

- Compression type
- Hollow structure type
- Sealed design
- Designed in accordance with IP65 standards

Application

- For ship winch safety

Description

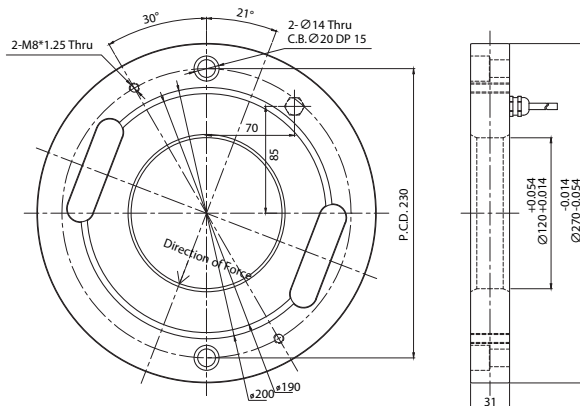
ZWIT is a steel material Disk type load cell. It's a sealed, hollow compression-type load cell suitable for systems that detect rope tension in ship winches where safety is crucial. It incorporates safety devices to prevent damage to the ship by handling overloads.

Specifications

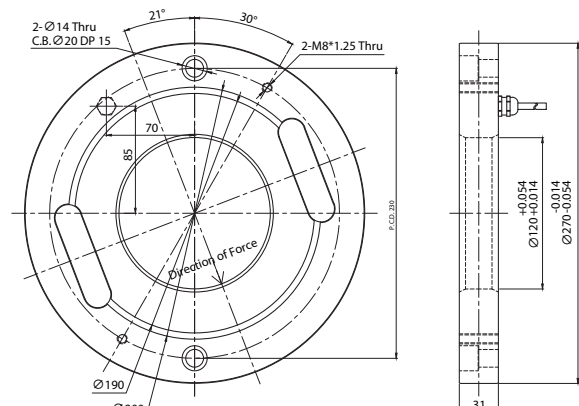
Capacity(R.L.)	tf	15
Rated Output	mV / V	1.5 ± 0.15
Zero Balance	mV / V	0.0 ± 0.015
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.5
Hysteresis	% R.O.	≤ 0.5
Combined Error	% R.O.	≤ 0.5
Repeatability	% R.O.	≤ 0.1
Creep for 30min.	% R.O.	≤ 0.5
Return for 30min.	% R.O.	≤ 0.5
Resolution	-	1/200
Division	mV / V	0.0075
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.1 ≤ 0.1
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		390 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-20 to +70
Material	-	Steel
Cable Specification	-	Ø5.4 X 4P X 0.7m(Urethane, Pin type)
Safety Overload	% R.L.	150

Dimensions

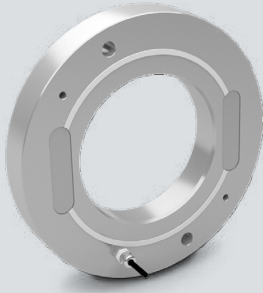
► ZWIT-15T (L)



► ZWIT-15T (R)



ZWITA-15T

Disk
Load Cell

Features

- Compression type
- Hollow structure type
- Sealed design
- Designed in accordance with IP65 standards

Application

- For ship winch safety

Description

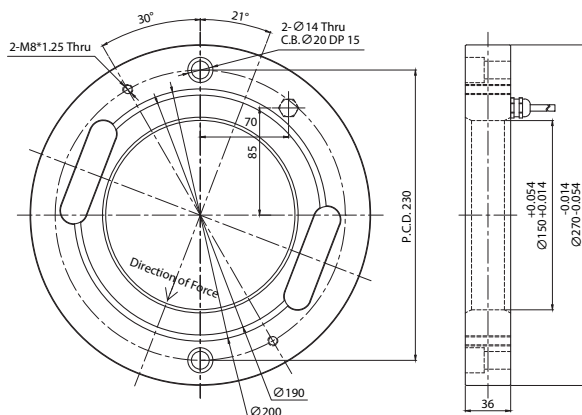
ZWITA is a steel material Disk type load cell. It's a sealed, hollow compression-type load cell suitable for systems that detect rope tension in ship winches where safety is crucial. It incorporates safety devices to prevent damage to the ship by handling overloads.

Specifications

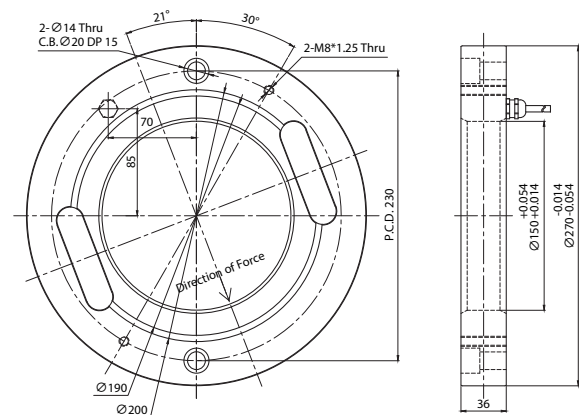
Capacity(R.L.)	tf	15
Rated Output	mV / V	1.5 ± 0.15
Zero Balance	mV / V	0.0 ± 0.015
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.5
Hysteresis	% R.O.	≤ 0.5
Combined Error	% R.O.	≤ 0.5
Repeatability	% R.O.	≤ 0.1
Creep for 30min.	% R.O.	≤ 0.5
Return for 30min.	% R.O.	≤ 0.5
Resolution	-	1/200
Division	mV / V	0.0075
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.1 ≤ 0.1
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		390 ± 20 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-20 to +70
Material	-	Steel
Cable Specification	-	Ø5.4 X 4P X 0.7m(Urethane, Pin type)
Safety Overload	% R.L.	150

Dimensions

► ZWITA-15T (L)



► ZWITA-15T (R)



INDUSTRIAL WEIGHING SOLUTION™



Double Ended Beam Load Cell

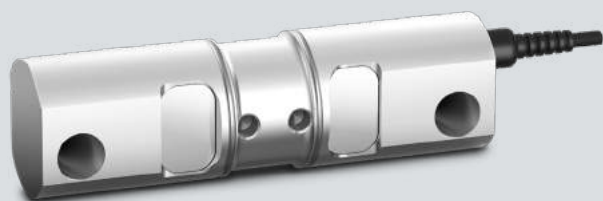
DSB-20 / DSB-B / DES-B / DSB1 / DSB2 / DSBV / DSBT / DSB-D

CAS has excellent technology in metering, and control, and provides high accuracy and precision load cells for various industrial environments.



DSB-20

Double Ended Beam Load Cell



Description

DSB-20 is a double ended type loadcell, and it can control the hopper or tank's movement, which is located on each side of the loadcell. Also, it has excellent performance in the high capacity weighing system and is suitable for hoppers and tank scales.

Specifications

Capacity(R.L.)	tf	20
Rated Output	mV / V	2.0 ± 0.004
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.01
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	$\leq 1/3000$
Division	mV / V	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.03 ≤ 0.015
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω M Ω
		800 ± 40 700 ± 7 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel
Cable Specification	-	$\varnothing 8 \times 4P \times 15m$ (PVC)
Safety Overload	% R.L.	150

Features

- Rocker pin loading design
- Truck scale accessory
- Designed according to IP67

Option

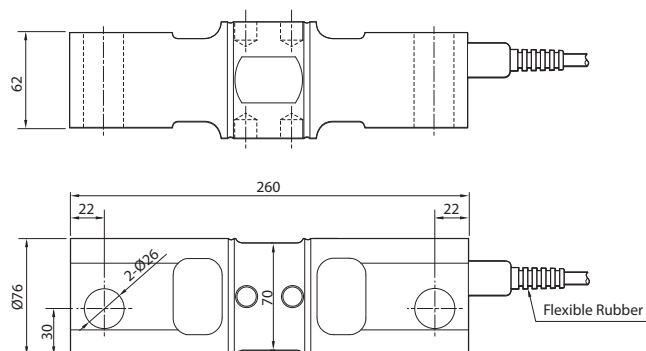
- Accessory Set

Application

- Hopper, Tank Scale

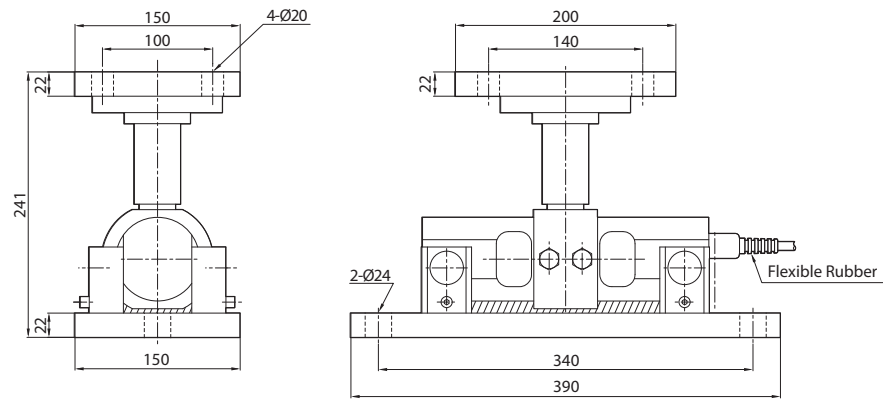
Dimensions

► DSB-20



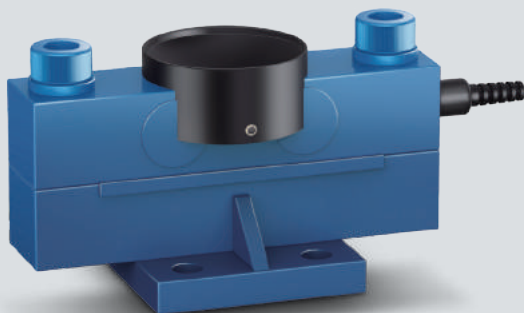
Accessory Dimensions

► DSB-20



DSB-B

Double Ended Beam Load Cell



Features

- Compressed type
- Robust design and easy installation
- Strong against shock or side force
- Designed according to IP67

Option

- Accessory Set

Accessory Features

- Easy loadcell replacement
- Appropriate for tank and truck scale applications
- High resolution by use of ball

Application

- Hoppers
- Tank scales

Description

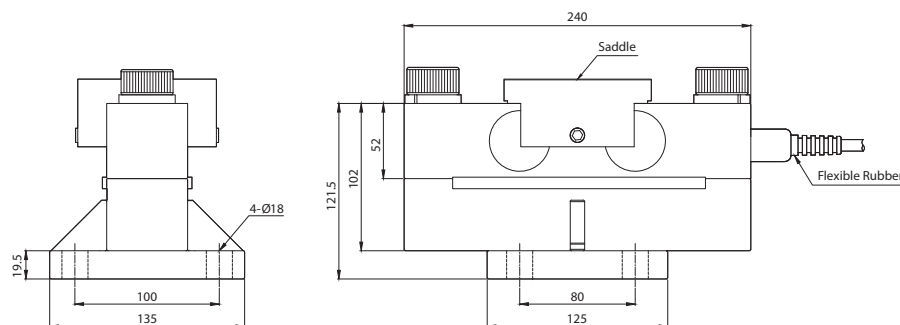
DSB-B is double ended type loadcell, and is suitable for high capacity hopper and tank scale and truck scale. Also through the ball, the force structure makes minimum side force.

Specifications

Capacity(R.L.)	tf	10, 25, 30
Rated Output	mV / V	2.0 ± 0.004
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	$\leq 1/3000$
Division	mV / V	0.00067
Temperature Effect on	-Zero Value -Output Value	≤ 0.03 ≤ 0.015
Excitation	-Recommended -Maximum	V 15
Resistance	-Input -Output -Insulation	800 ± 40 700 ± 7 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel / Coating
Cable Specification	-	$\varnothing 8 \times 4P \times 15m$ (PVC)
Safety Overload	% R.L.	150

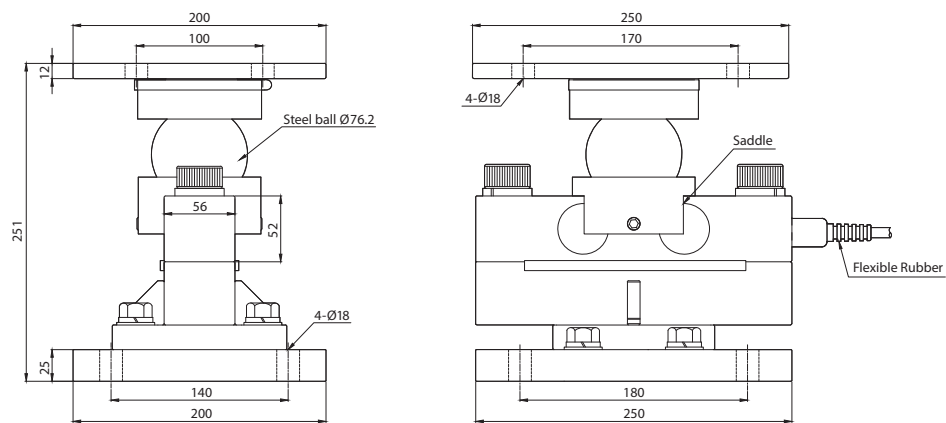
Dimensions

► DSB-B



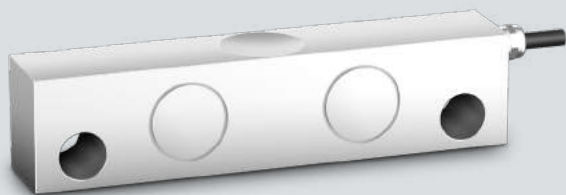
Accessory Dimensions

► DSB-B



DES-B

Double Ended Beam Load Cell



Description

DES-B is a double ended type loadcell, and is suitable for high capacity hoppers, tank scales and truck scales. Also through the ball, the force structure makes minimum side force.

Specifications

Capacity(R.L.)	tf	5, 10, 15, 20
Rated Output	mV / V	2.0 ± 0.005
Zero Balance	mV / V	0.0 ± 0.03
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.03
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/3000
Division	mV / V	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.03 ≤ 0.015
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		800 ± 40 700 ± 7 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel
Cable Specification	-	Ø8 x 4P x 10m (PVC)
Safety Overload	% R.L.	150

Features

- Robust design and easy installation
- Strong against shock or side force
- Designed according to IP67

Option

- Accessory Set

Accessory Features

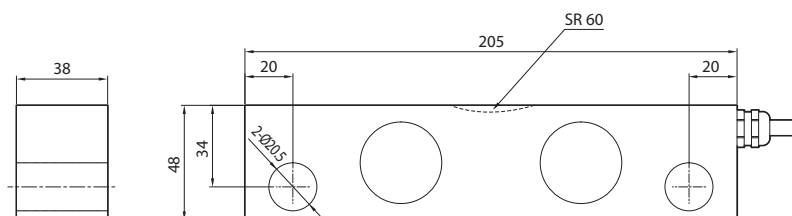
- Easy loadcell replacement
- Appropriate for tank and truck scale application
- High resolution by use of ball

Application

- Hopper, Tank Scale
- Tank Scale

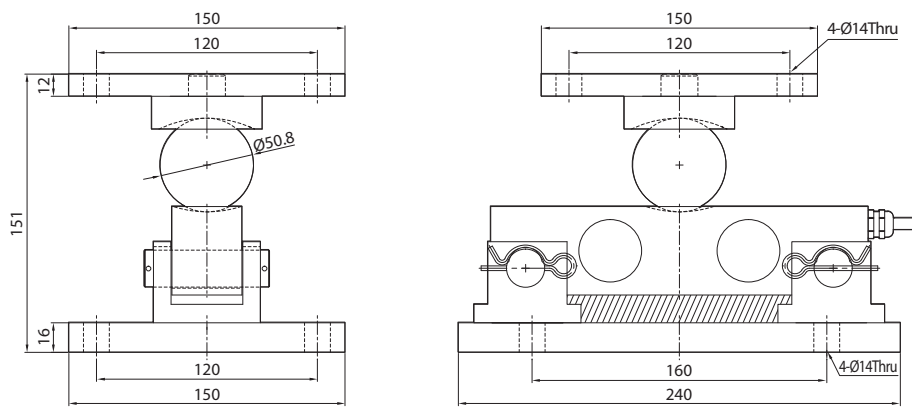
Dimensions

► DES-B



Accessory Dimensions

► DES-B



DSB1

Double Ended Beam Load Cell



Description

DSB1 is a nickel plated steel construction double ended type loadcell, which is suitable for high capacity hoppers, tank scales and truck scales.

Specifications

Capacity(R.L.)	klb	10, 20, 25, 50, 60, 75	
Rated Output	mV / V	3.0 ± 0.0075	
Zero Balance	mV / V	0.0 ± 0.03	
Accuracy Class	-	IIIL	-
Non-Linearity	% R.O.	≤ 0.03	≤ 0.05
Hysteresis	% R.O.	≤ 0.03	≤ 0.05
Combined Error	% R.O.	≤ 0.03	≤ 0.05
Repeatability	% R.O.	≤ 0.015	≤ 0.03
Creep for 30min.	% R.O.	≤ 0.02	≤ 0.05
Return for 30min.	% R.O.	≤ 0.02	≤ 0.05
Resolution	-	≤ 1/3000	≤ 1/2000
Division	mV / V	0.001	0.0015
Temperature Effect on	-Zero Value	%/10°C	≤ 0.014
	-Output Value	%/10°C	≤ 0.011
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	800 ± 40
	-Output	Ω	700 ± 7
	-Insulation	MΩ	> 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Steel	
Cable Specification	-	Ø5.4 x 4P x 10m (Urethane)	
Safety Overload	% R.L.	150	

Features

- Designed according to IP67

Option

- DSB1 TW Accessory set
- NTEP Class IIIL Approved

Accessory Features

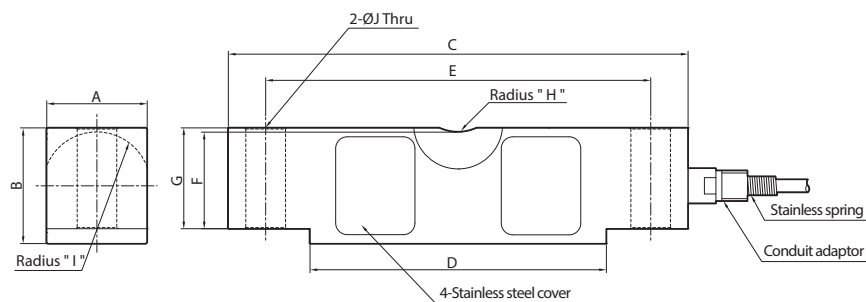
- Easy loadcell replacement
- Appropriate for tank and truck scale applications
- High resolution by use of ball

Application

- Hopper, Tank Scale
- Truck scale

Dimensions

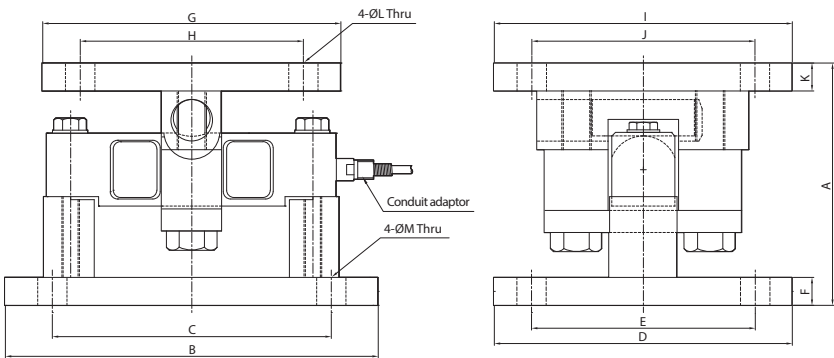
► DSB1



Capa.	A	B	C	D	E	F	G	H	I	J	Cable(m)
10~25klb	43	49.6	197	127	165	41.2	43.2	19	23	17	10
50~75klb	62	74.7	260.6	160.6	216	64.4	67.3	26	35	27	

Accessory Dimensions

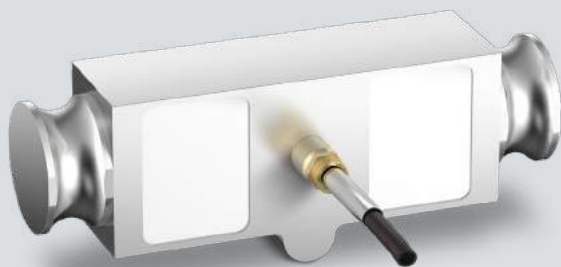
► DSB1



Capa.	A	B	C	D	E	F	G	H	I	J	K	L	M
10~25klb	165	254	190	203	152.4	19	203	152	203	152	19	20	20
50~75klb	241.8	356	292	254	190	24.5	230	165	230	165	25.4	29	29

DSB2

Double Ended Beam Load Cell



Features

- Designed according to IP67

Option

- DSB2 TW Accessory Set

Application

- Hopper, Tank Scale
- Truck scale

Description

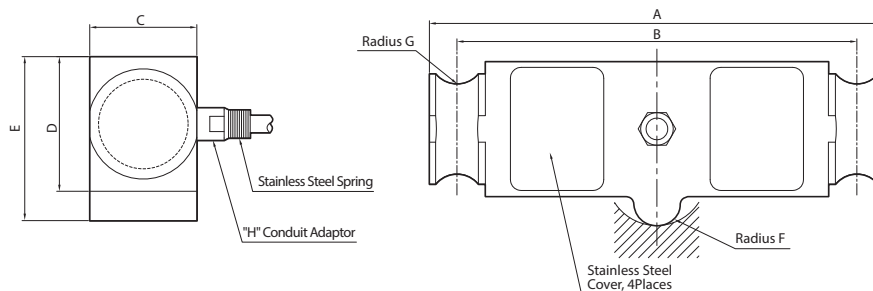
DSB2 is a nickel plated steel double-end type load cell. It has high capacity hopper and tank suitable for scale and truck scale.

Specifications

Capacity(R.L.)	kIb	25, 40, 75
Rated Output	mV / V	3.0 ± 0.0075
Zero Balance	mV / V	0.0 ± 0.03
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.03
Hysteresis	% R.O.	≤ 0.03
Combined Error	% R.O.	≤ 0.03
Repeatability	% R.O.	≤ 0.015
Creep for 30min.	% R.O.	≤ 0.02
Return for 30min.	% R.O.	≤ 0.02
Resolution	-	$\leq 1/3000$
Division	mV / V	0.001
Temperature Effect on	-Zero Value -Output Value	≤ 0.014 ≤ 0.011
Excitation	-Recommended -Maximum	V 15
Resistance	-Input -Output -Insulation	Ω Ω M Ω
Compensated Temperature Range	$^{\circ}\text{C}$	-10 to +40
Operating Temperature Range	$^{\circ}\text{C}$	-30 to +80
Material	-	Steel
Cable Specification	-	$\varnothing 5.4 \times 4\text{P} \times 12\text{m}$ (Urethane)
Safety Overload	% R.L.	150

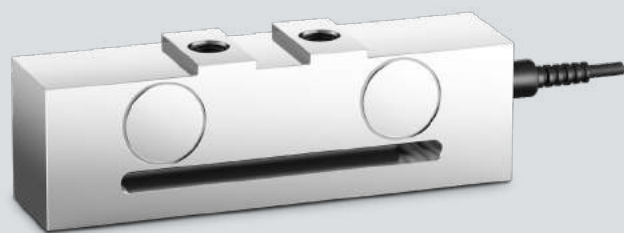
Dimensions

► DSB2



Capa.	A	B	C	D	E	F	G	H
25~40klb	209.6	184.2	49.3	62.0	75.5	12.7	12.7	1/4-18NPT
75klb	292.1	254.0	49.3	74.7	88.15	25.4	19.1	1/2-14NPT

DSBV | Double Ended Beam Load Cell



Description

DSBV is a double ended type load cell with high capacity hoppers, tank scales and truck scales that are suitable. In addition, installation is simple and convenient through direct assembly of load cell and accessories.

Specifications

Capacity(R.L.)	tf	1, 2, 3, 5, 10
Rated Output	mV / V	1.2 ± 0.12
Zero Balance	mV / V	0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.05
Hysteresis	% R.O.	≤ 0.05
Combined Error	% R.O.	≤ 0.05
Repeatability	% R.O.	≤ 0.03
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/2000
Division	mV / V	0.0006
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		800 ± 40 700 ± 7 > 2000
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel
Cable Specification	-	Ø8 x 4P x 5m (PVC)
Safety Overload	% R.L.	150

Features

- Robust design and easy installation
- Strong against shock or side force
- Designed according to IP67

Option

- Accessory Set

Accessory Features

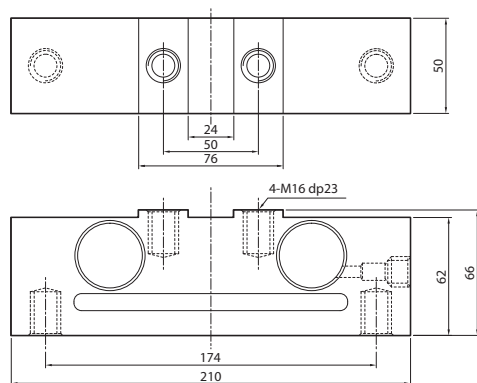
- Easy loadcell replacement
- Suitable for tank and truck scale

Application

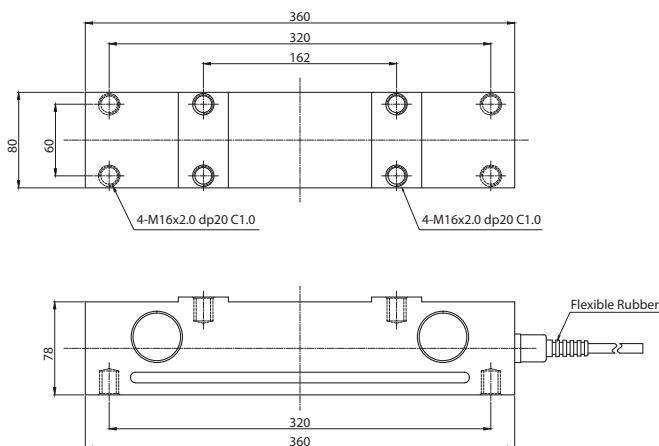
- Hopper, Tank Scale
- Truck Scale

Dimensions

► DSBV (1t ~ 3t)

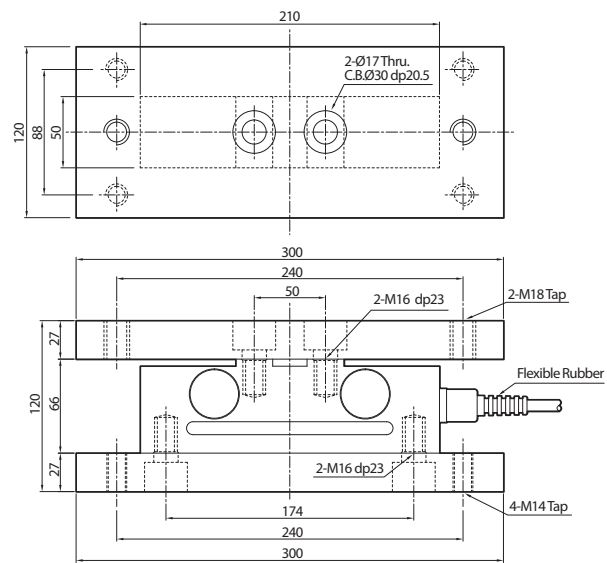


► DSBV (5t ~ 10t)

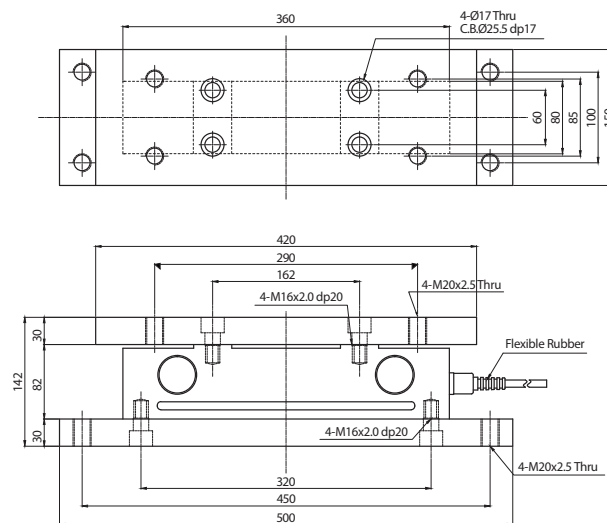


Accessory Dimensions

► DSBV (1t ~ 3t)

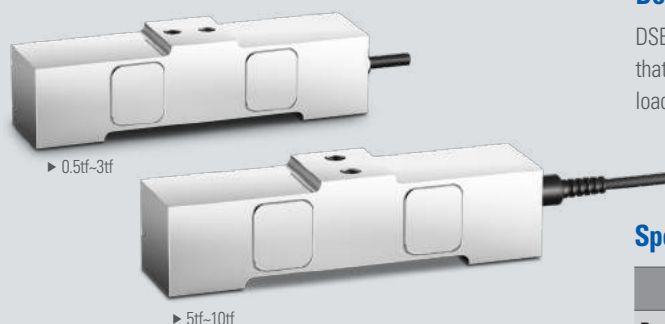


► DSBV (5t ~ 10t)



DSBT (0.5tf~10tf)

Double Ended Beam Load Cell



Description

DSBT is a double ended type load cell with high capacity hoppers, tank scales and truck scales that are suitable. In addition, installation is simple and convenient through direct assembly of load cell and accessories.

Specifications

Capacity(R.L.)	tf	0.5 , 1.5 , 3 , 5 , 10
Rated Output	mV / V	2.0 ± 0.1
Zero Balance	mV / V	0 ± 0.1
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.1
Hysteresis	% R.O.	≤ 0.1
Combined Error	% R.O.	≤ 0.1
Repeatability	% R.O.	≤ 0.03
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	1/1000
Division	mV / V	0.002
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
Excitation	-Recommended -Maximum	V V
Resistance	-Input -Output -Insulation	Ω Ω MΩ
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel
Cable Specification	-	Ø5.4 x 4P x 5m (PVC)
Safety Overload	% R.L.	150

Features

- Robust design and easy installation
- Strong against shock or side force
- Designed according to IP67

Option

- Accessory Set

Accessory Features

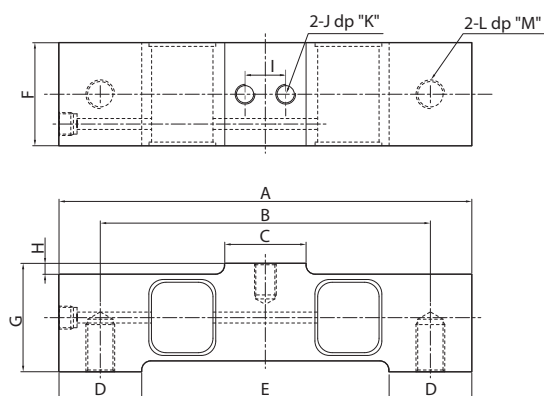
- Easy loadcell replacement
- Suitable for tank and truck scale

Application

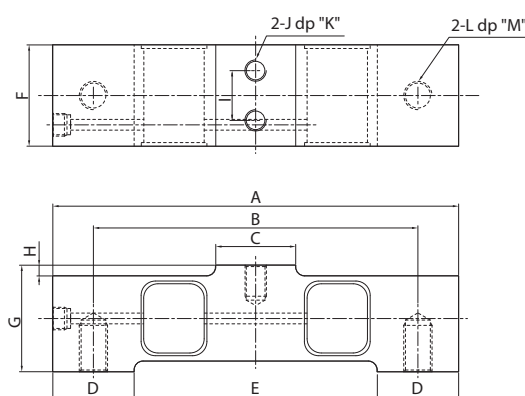
- Hopper, Tank Scale
- Truck Scale

Dimensions

► DSBT (0.5tf~3tf)



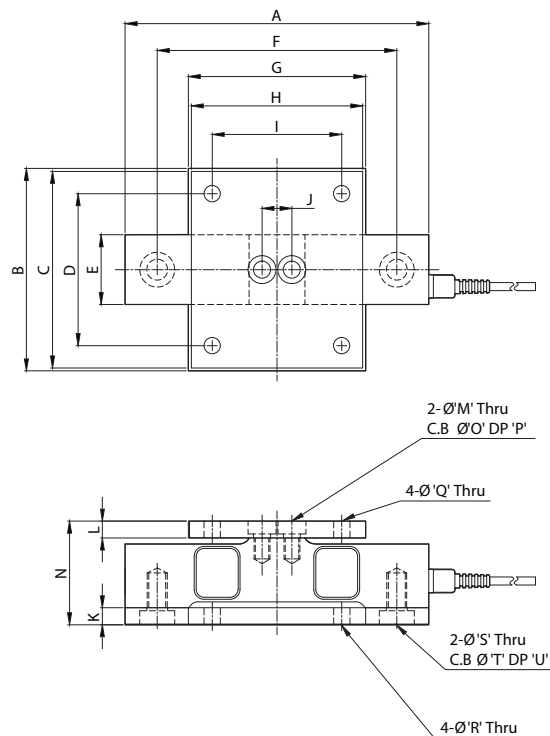
► DSBT (5tf~10tf)



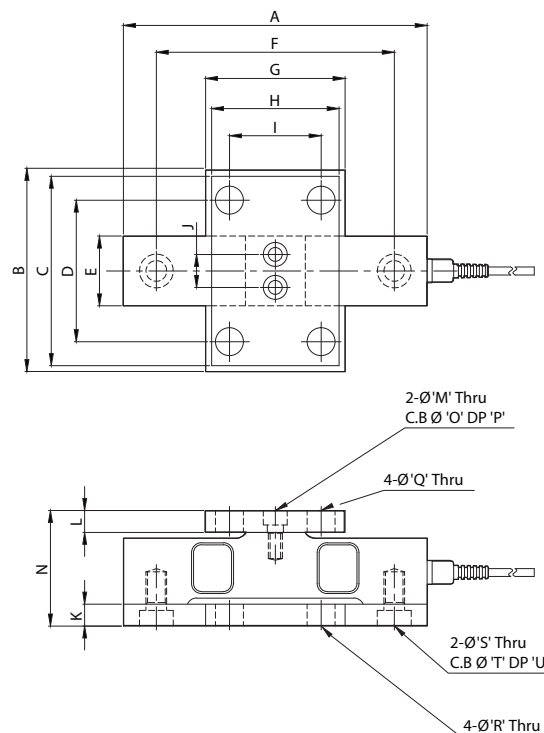
Capa.	A	B	C	D	E	F	G	H	I	J	K	L	M	Cable(m)
0.5tf	152.4	120.2	28	32.2	88	35	35	3	15	M8×1.25	13	M10×1.5	20	5
1.5tf	177.8	139.4	36	38.4	101	40	43	3	18	M8×1.25	13	M12×1.75	20	
2tf	165	138	35	25	115	32	30	1	16	M8×1.25	15	M10×1.5	20	
3tf	177.8	139.4	36	38.4	101	40	43	3	18	M8×1.25	13	M12×1.75	20	
5tf	228.6	182.8	45	45.8	137	57	60	6	28	M12×1.75	20	M16×2	24	
10tf	254	196.8	48	57	140	58	66	7	28	M16×2	24	M16×2	24	

Accessory Dimensions

► DSBT (0.5tf ~ 3tf)



► DSBT (5tf ~ 10tf)



* Upper and lower plates' fastening hole positions are same.
 * No upper plate fastening hole in 1.5tf one.

Capa.	A	B	C	D	E	F	G	H	I	J	K	L	N	M	O	P	Q	R	S	T	U	Cable (m)
0.5tf	152.4	101.6	98.6	76.2	35	120.2	89	89	65	15	8.5	8.5	52	8.5	14	6.5	8.2	8.2	10.5	17.5	7	5
1.5tf	177.8	114.3	70	92	40	139.4	101.6	101.6	79.2	18	10	10	63	8.5	14	7	-	10.2	12.5	22	7	
2tf	165	101.6	98.6	76.2	32	138	115	89	65	16	10.5	8.3	50.8	8.5	14	8.3	8.2	8.2	10.5	22	8	
3tf	177.8	114.3	114.3	92	40	139.4	101.6	101.6	79.2	18	10	10	63	8.5	14	7	10.2	10.2	12.5	22	7	
5tf	228.6	139.7	139.7	112.2	57	182.8	127	127	99.6	28	14.5	14.5	89	12.5	22	10	10.2	10.2	16.5	26	11.5	
10tf	254	165.2	165.2	128.6	58	196.8	139.8	139.8	106.2	28	19.5	19.5	105	16.5	26	13	12.7	12.7	16.5	26	13	

DSB-D

Double Ended Beam Digital Load Cell



Description

The DSB-D digital load cell is suitable for large-scale scales such as car weighers, tanks and hoppers, Nickel plated steel IP67 construction for accurate and precise performance in harsh environments. The user can connect the load cells individually through the digital output. When weighing system is manufactured, it is easy to calibrate weight, check for trouble and replace load cell easily.

Specifications

Capacity(R.L.)	tf	10, 20, 25, 30
Rated Output	counts	300,000
Zero Balance	counts	± 300
Non-Linearity	% R.O.	< 0.015
Hysteresis	% R.O.	< 0.015
Combined Error	% R.O.	< 0.015
Repeatability	% R.O.	< 0.01
Creep for 30min.	% R.O.	< 0.017
Temperature Effect on	- Zero Value - Output Value	% R.O./10°C % R.O./10°C
Compensated Temperature Range	°C	-10 ~ +40
Operating Temperature Range	°C	-30 ~ +80
Excitation	- Minimum - Recommended - Maximum	V V V
Insulation	MΩ	≥ 2,000
Safety Overload	% R.C.	150
Material	-	Steel
Communication Method	-	RS-485 (2wire)
Communication Speed	kbit/sec	19.2
Max Cable Length for Communication	m	1,000
Warm-up Time from Cold Start	minutes	15
Asynchronous Interface Baudrate	Baud	9,600 ~ 115,200
Number of bus addresses	-	Max. 32

Features

- Compression type
- High resolution digital output
- CE Approved
- Designed according to IP67

Option

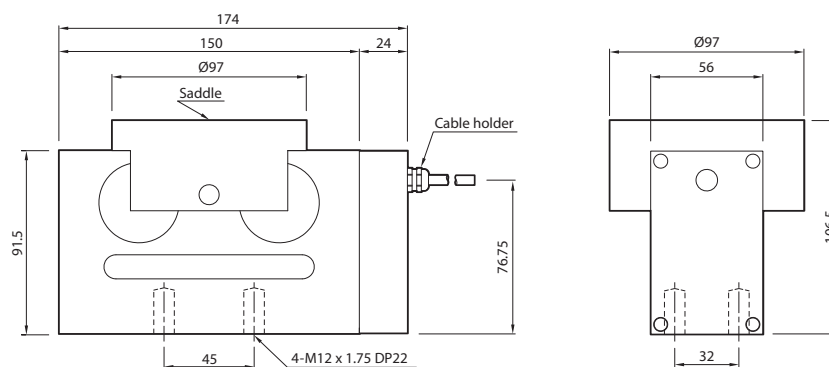
- Ball type accessory
- Option plate (When using DSB Analog)

Application

- Hopper, Tank Scale
- Truck Scale

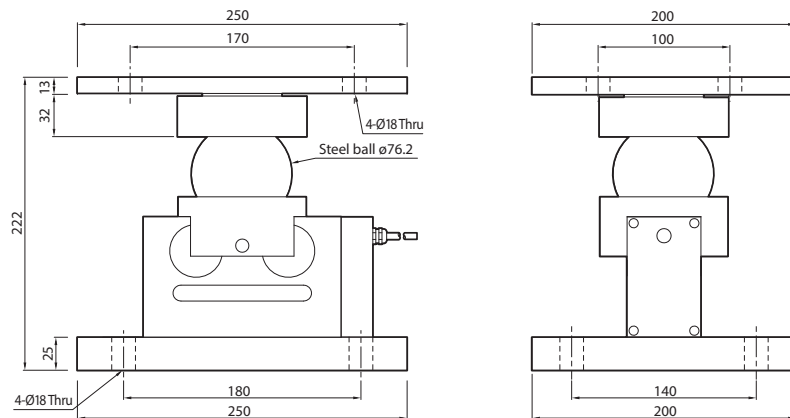
Dimensions

► DSB-D

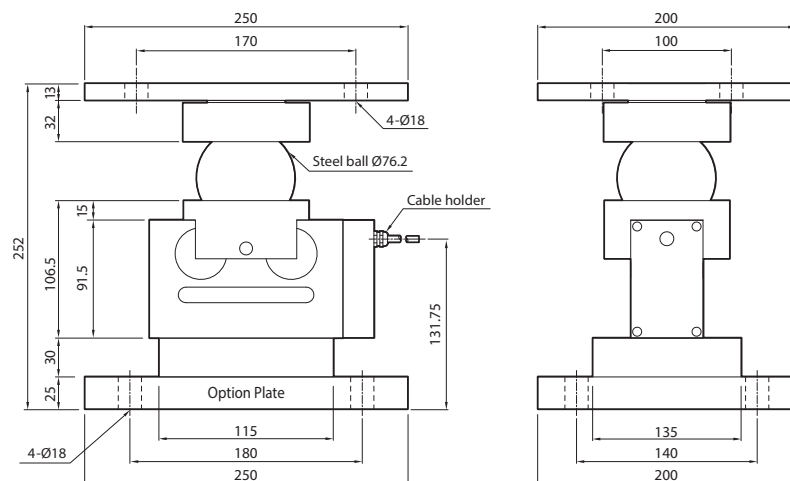


Accessory Dimensions

► DSB-D



► Including base option (same height as Analog DSB type)





Canister Load Cell

CC / CC-NR / CT / CT-NR / CTS / CTS-EXP / HC / HC-NR / HC-D / HCS / HCS-EXP
WBK / WBK-NR / WBK-EXP / WBK-D / NWBK / WBKL / WBKC

CAS has excellent technology in metering, and control, and provides high accuracy and precision load cells for various industrial environments.



CC | Canister Load Cell



Features

- Compression type
- Hermetically sealed structure
- Designed according to IP67

Option

- Load button type accessory
- Ball type accessory
- CC-NR (CE certification)

Application

- Hopper, Tank, silo Scale

Description

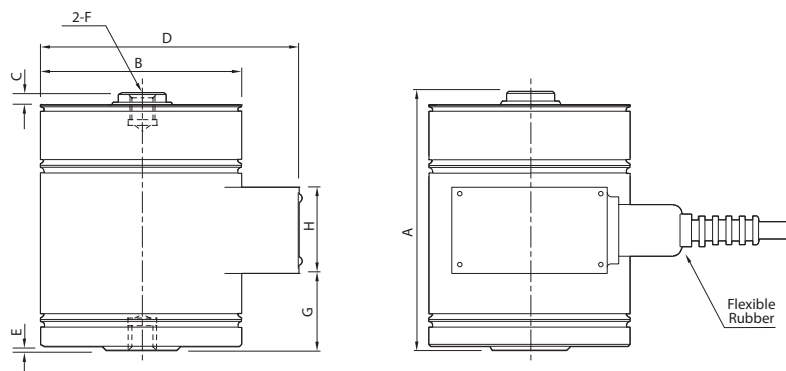
CC is Canister type load cell of steel material. Compression type of sealed structure Load cell hopper suitable for tough industrial environments such as tanks and silo scales.

Specifications

Capacity(R.L.)	kgf	20, 50, 100, 200, 300, 500, 1K, 2K, 3K, 5K, 10K, 20K	
Rated Output	mV / V	3.0 ± 0.003	
Zero Balance	mV / V	0.0 ± 0.03	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.05
Hysteresis	% R.O.	≤ 0.02	≤ 0.05
Combined Error	% R.O.	≤ 0.02	≤ 0.05
Repeatability	% R.O.	≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/2000
Division	mV / V	0.0006	0.0015
Temperature Effect on	-Zero Value	%/10°C	≤ 0.03
	-Output Value	%/10°C	≤ 0.03
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	350 ± 3.5
	-Output	Ω	350 ± 3.5
	-Insulation	MΩ	> 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Steel / Coating	
Cable Specification	-	Ø8 x 4P x 5M / Ø8 x 4P x 10M (PVC)	
Safety Overload	% R.L.	150	

Dimensions

► CC



Capa.	A	ØB	C	D	E	F	G	H	Cable (m)
20~100kgf	115	89	6	115	1.5	M12 x 1.25	38.5	38	5
200kgf~1tf	115	89	5	115	1.5	M12 x 1.25	35		
2~5tf	148	89	6	115	1.6	M24 x 2	38.6		10
10tf	215	127	12	159	1.6	M39 x 2	75.6		
20tf	290	165	16.2	199	1.6	M50 x 2	107.6		

CC-NR

Noise Resistance
Canister Load Cell

Features

- Pressure type
- Hermetically sealed structure
- Built-in noise and surge protection circuit
- CE Approval
- Designed according to IP67

Option

- Load Button Accessory
- Ball Type Accessory

Application

- Hoppers, Silos, Tanks

Description

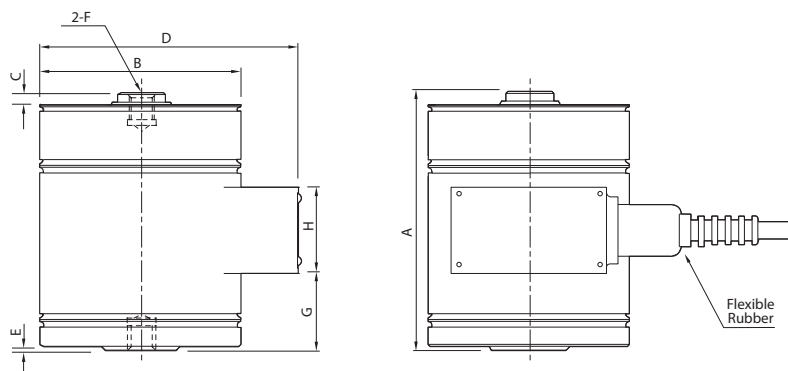
CC-NR is a canister type load cell of steel material with a strong electrical durability. Internal protection circuits provide protection against noise, surge, and lightning. Sealed pressure type of load cell suitable for rough industrial environments such as hoppers and tanks and silo scales.

Specifications

Capacity(R.L.)	kgf	20, 50, 100, 200, 300, 500, 1K, 2K, 3K, 5K, 10K, 20K	
Rated Output	mV / V	3.0±0.003	
Zero Balance	mV / V	0.0±0.03	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.05
Hysteresis	% R.O.	≤ 0.02	≤ 0.05
Combined Error	% R.O.	≤ 0.02	≤ 0.05
Repeatability	% R.O.	≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/2000
Division	mV / V	0.0006	0.0015
Temperature Effect on	- Zero Value - Output Value	%/10°C %/10°C	≤ 0.03 ≤ 0.03
Excitation	- Recommended - Maximum	V V	10 15
Resistance	- Input - Output - Insulation	Ω Ω MΩ	350 ± 3.5 350 ± 3.5 ≥ 500
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Steel / Coating	
Cable Specification	-	Ø8 x 4P x 5m / Ø8 x 4P x 10m (PVC)	
Safety Overload	% R.L.	150	
Electrical Character	- Over Voltage - RS - Surge	V. % MHz kV	75 AC/DC ±25% 80 ~ 1000MHz, 10V/m ±2

Dimensions

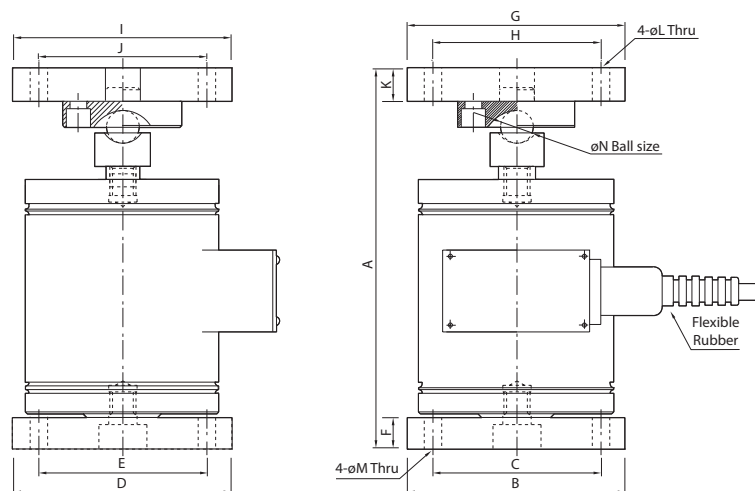
► CC-NR



Capa.	A	ØB	C	D	E	F	G	H	Cable(m)
20~100kgf	115	89	6	115	1.5	M12 x 1.25	38.5	38	5
200kgf~1tf	115	89	5	115	1.5	M12 x 1.25	35		
2~5tf	148	89	6	115	1.6	M24 x 2	38.6		10
10tf	215	127	12	159	1.6	M39 x 2	97		
20tf	290	165	16.2	199	1.6	M50 x 2	139.5		

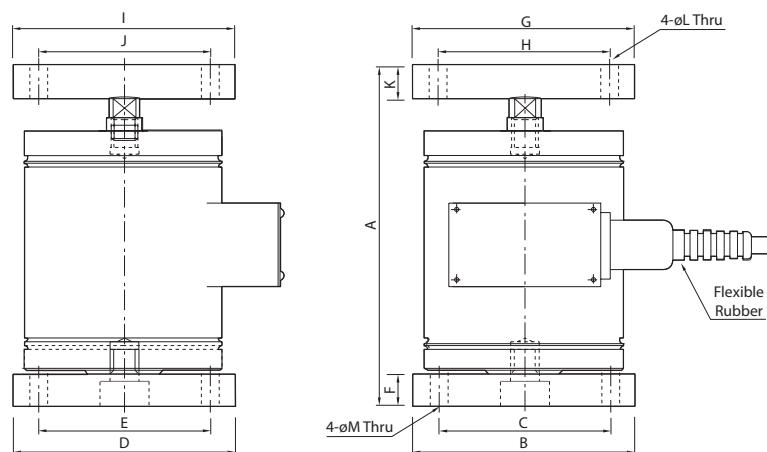
Accessory Dimensions

► CC (Ball Type)



Capa.	A	B	C	D	E	F	G	H	I	J	K	ØL	ØM	ØN
20kgf~1tf	177.4	100	77	100	77	15	100	77	100	77	15	8	8	17.4
2~5tf	253.75	130	105	130	105	23	130	105	130	105	23	12	12	31.75
10tf	334.75	160	125	160	125	30	130	105	130	105	23	12	14	31.75
20tf	409.75	200	150	200	150	30	130	105	130	105	23	12	14	31.75

► CC (Load Button Type)



Capa.	A	B	C	D	E	F	G	H	I	J	K	ØL	ØM
20kgf~1tf	153.7	100	77	100	77	15	100	77	100	77	15	8	8
2~5tf	210.3	130	105	130	105	23	130	105	130	105	23	12	12
10tf	303	160	125	160	125	30	160	125	160	125	30	14	14
20tf	375.5	200	150	200	150	30	200	150	200	150	30	14	14

CT | Canister Load Cell



Features

- Tension type
- Hermetically sealed structure
- Designed according to IP67

Option

- Rod and bearing Type Accessory
(20~1K : M12 x 1.25)
(2~5K : M24 x 2.0)
(10K : M39 x 2.0)
- CE approval

Application

- Hoppers, Tanks

Description

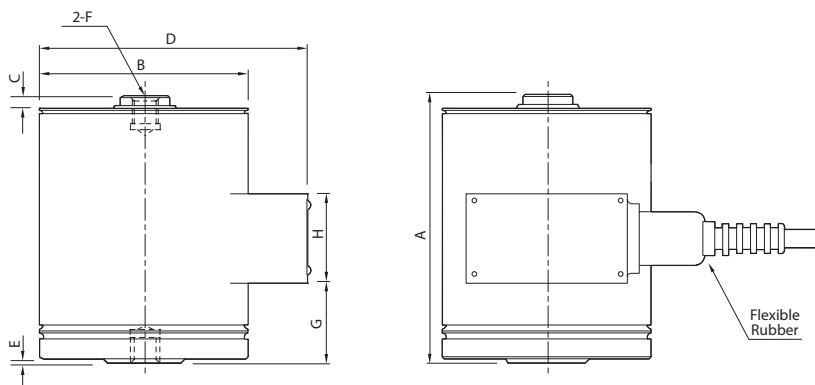
CT is a canister type load cell of steel material. Sealed tension type of load cell suitable for rough industrial environments such as hoppers and tank scales.

Specifications

Capacity(R.L.)	kgf	20, 50, 100, 200, 300, 500, 1K, 2K, 3K, 5K, 10K, 20K	
Rated Output	mV / V	3.0 ± 0.003	
Zero Balance	mV / V	0.0 ± 0.03	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.05
Hysteresis	% R.O.	≤ 0.02	≤ 0.05
Combined Error	% R.O.	≤ 0.02	≤ 0.05
Repeatability	% R.O.	≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/2000
Division	mV / V	0.0006	0.0015
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V	10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ	350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Steel / Coating	
Cable Specification	-	Ø8 x 4P x 5M & Ø8 x 4P x 10M (PVC)	
Safety Overload	% R.L.	150	

Dimensions

► CT



Capa.	A	ØB	C	D	E	F	G	H	Cable(m)
20~100kgf	115	89	6	115	1.5	M12 x 1.25	38.5	38	5
200kgf~1tf	115	89	5	115	1.5	M12 x 1.25	35		
2~5tf	148	89	6	115	1.6	M24 x 2	38.6		10
10tf	215	127	12	159	1.6	M39 x 2	75.6		
20tf	290	165	16.2	199	1.6	M50 x 2	107.6		

CT-NR

Noise Resistance
Canister Load Cell



Description

CT-NR is a canister type load cell of steel material with a strong electrical durability. Internal protection circuits provide protection against noise, surge, and lightning. Sealed tension type of load cell suitable for rough industrial environments such as hoppers and tanks and silo scales.

Specifications

Capacity(R.L.)	kgf	20, 50, 100, 200, 300, 500, 1K, 2K, 3K, 5K, 10K, 20K	
Rated Output	mV / V	3.0±0.003	
Zero Balance	mV / V	0.0±0.03	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.05
Hysteresis	% R.O.	≤ 0.02	≤ 0.05
Combined Error	% R.O.	≤ 0.02	≤ 0.05
Repeatability	% R.O.	≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/2000
Division	mV / V	0.0006	0.0015
Temperature Effect on	- Zero Value	%/10°C	≤ 0.03
	- Output Value	%/10°C	≤ 0.03
Excitation	- Recommended	V	10
	- Maximum	V	15
Resistance	- Input	Ω	350 ± 3.5
	- Output	Ω	350 ± 3.5
	- Insulation	MΩ	≥ 500
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Steel / Coating	
Cable Specification	-	Ø8 x 4P x 5m / Ø8 x 4P x 10m (PVC)	
Safety Overload	% R.L.	150	
Electrical Character	- Over Voltage	V. %	75 AC/DC ±25%
	- RS	MHz	80 ~ 1000MHz, 10V/m
	- Surge	kV	±2

Features

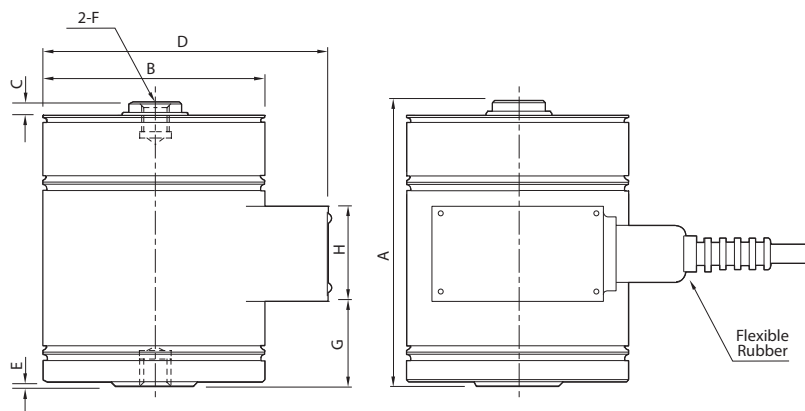
- Tension type
- Hermetically sealed structure
- Built-in noise and surge protection circuit
- CE Approval
- Designed according to IP67

Option

- Rod End Bearing Type Accessory

Dimensions

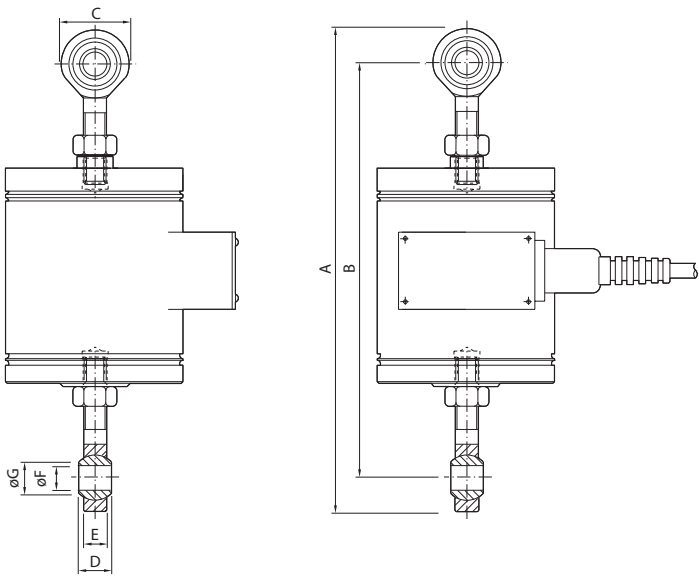
► CT-NR



Capa.	A	ØB	C	D	E	F	G	H	Cable(m)
20~100kgf	115	89	6	115	1.5	M12 x 1.25	38.5	38	5
200kgf~1tf	115	89	5	115	1.5	M12 x 1.25	35		
2~5tf	148	89	6	115	1.6	M24 x 2	38.6		10
10tf	215	127	12	159	1.6	M39 x 2	75.6		
20tf	290	165	16.2	199	1.6	M50 x 2	107.6		

Accessory Dimensions

► Rod End Bearing



Capa.	A	B	C	D	E	ØF	ØG
20~100kgf	249-254	215-220	34	16	12	12	15.4
200kgf~1tf	255-260	221-226	34	16	12	12	15.4
2~5tf	525-530	423-428	102	28	27	22	25.8
10tf	680-685	545-550	135	40	38	39	45
20tf	Demand Accessory						

CTS

Canister
Load Cell

Description

CTS is a stainless steel canister type load cell. Sealed tension and pressure type of load cell suitable for rough industrial environments such as hoppers, silos, and tank scales.

Specifications

Capacity(R.L.)	kgf	200, 500, 1K, 2K, 3K, 5K	
Rated Output	mV / V	3.0 ± 0.003	
Zero Balance	mV / V	0.0 ± 0.03	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.05
Hysteresis	% R.O.	≤ 0.02	≤ 0.05
Combined Error	% R.O.	≤ 0.02	≤ 0.05
Repeatability	% R.O.	≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/2000
Division	mV / V	0.0006	0.0015
Temperature Effect on	-Zero Value	%/10°C	≤ 0.03
	-Output Value	%/10°C	≤ 0.03
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	350 ± 3.5
	-Output	Ω	350 ± 3.5
	-Insulation	MΩ	> 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-30 to +80	
Material	-	Stainless Steel	
Cable Specification	-	Ø8 x 4P x 5m (PVC)	
Safety Overload	% R.L.	150	

Features

- Tension type
- Stainless Steel Material
- Hermetically sealed structure
- Designed according to IP68

Option

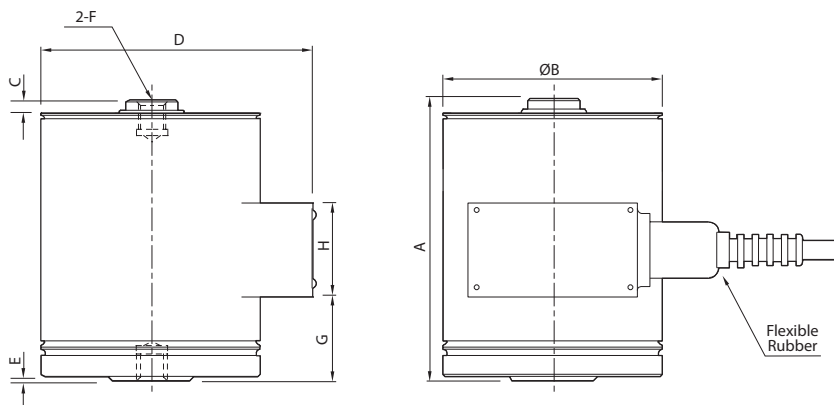
- Intrinsic safety explosion (Ex ia IIC T4, 500kgf~5tf)
- Explosion proof (Ex d IIC T4, 200kgf~5tf)
- Dust explosion (Ex tD A21 T135°C IP66, 200kgf~5tf)
- Rod End Bearing Type Accessory
(500 kgf: M12 x 1.75)
(1 to 2 tf: M18 x 1.5)
- Ball type Accessory
- Load Button type Accessory

Application

- Hoppers, Tanks

Dimensions

► CTS



Capa.	A	B	C	D	E	F	G	H	Cable(m)
200kgf~1tf	115	89	5	115	1.5	M12 x 1.25	35	38	5
2~5tf	148	88	4	115	1.6	M24 x 2	55	38	

CTS-EXP

Explosion Proof
Canister Load Cell



Description

CTS-EXP is a stainless steel canister type load cell. Designed in explosion-proof structure, it is suitable for rough industrial environments such as explosion-proof hoppers, tanks and silos in blast-prone areas. The water-resistant structure of IP68 for stainless steel materials is ideal for humid environments.

Specifications

Capacity(R.L.)	kgf	200, 300, 500, 1K, 2K, 3K, 5K	
Rated Output	mV / V	3.0 ± 0.003	
Zero Balance	mV / V	0.0 ± 0.03	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.05
Hysteresis	% R.O.	≤ 0.02	≤ 0.05
Combined Error	% R.O.	≤ 0.02	≤ 0.05
Repeatability	% R.O.	≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.03	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/2000
Division	mV / V	0.0006	0.00015
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V	10 28
Resistance	-Input -Output -Insulation	Ω Ω MΩ	350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to + 40	
Operating Temperature Range	°C	-30 to + 80	
Material	-	Stainless Steel	
Cable Specification	-	Ø8 x 4P x 5m (Urethane)	
Safety Overload	% R.L.	150	

Features

- Tension/Pressure type
- Stainless Steel Material
- Hermetically sealed structure
- Explosion-proof structure
- Designed according to IP68

Option

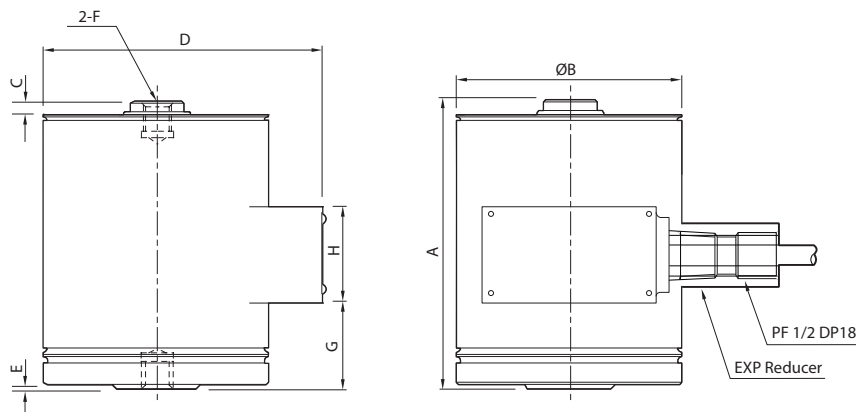
- Intrinsic safety explosion (Ex ia IIC T4, 500kgf~5tf)
- Explosion proof (Ex d IIC T4, 200kgf~5tf)
- Dust explosion (Ex td A21 T135°C IP66, 200kgf~5tf)
- Rod End Bearing Type Accessory
(500 kgf: M12 x 1.75)
(1 to 2 tf: M18 x 1.5)
- Ball type Accessory
- Load Button type Accessory

Application

- Hoppers, Tanks

Dimensions

- ▶ Intrinsic safety explosion, Explosion proof, Dust proof

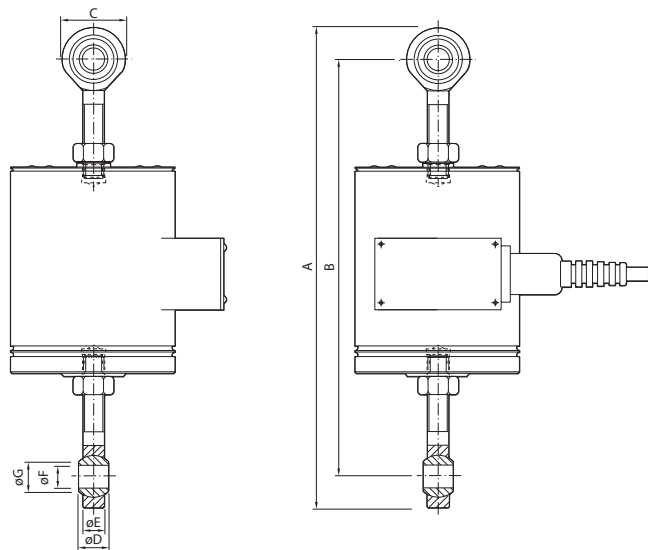


* Intrinsic safety explosion 500kgf~5tf

Capa.	A	B	C	D	E	F	G	H	Cable(m)
200kgf~1tf	115	89	5	115	1.5	M12 x 1.25	35	38	5
2~5tf	148	88	4	115	1.6	M24 x 2	55	38	

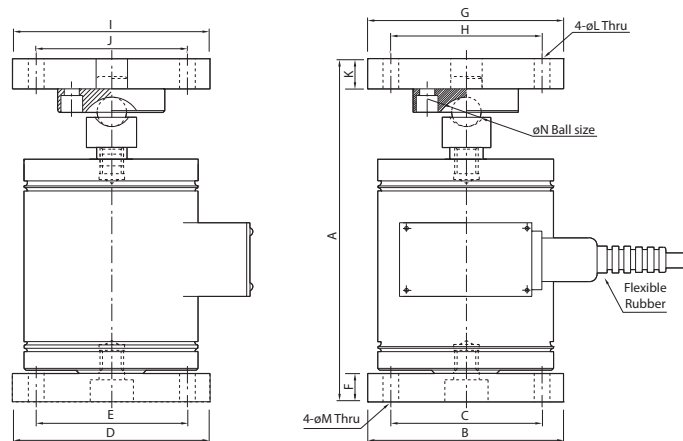
Accessory Dimensions

► CTS (Rod End Bearing)



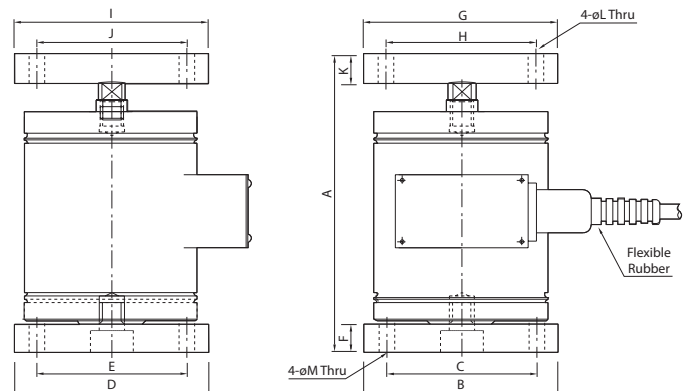
Capa.	A	B	C	D	E	ØF	ØG
200kgf~1tf	255 ~ 260	221 ~ 226	34	16	12	12	15.4
2~5tf	526 ~ 531	424 ~ 429	102	28	27	22	25.8

► CTS (Ball type)



Capa.	A	B	C	D	E	F	G	H	I	J	K	ØL	ØM	ØN
200kgf~1tf	177.4	100	77	100	77	15	100	77	100	77	15	8	8	17.4
2~5tf	253.75	130	105	130	105	23	130	105	130	105	23	12	12	31.75

► CTS (Load Button type)



Capa.	A	B	C	D	E	F	G	H	I	J	K	ØL	ØM
200kgf~1tf	153.7	100	77	100	77	15	100	77	100	77	15	8	8
2~5tf	210.3	130	105	130	105	23	130	105	130	105	23	12	12

HC | Canister Load Cell



Features

- Pressure type
- Hermetically sealed structure
- Designed according to IP67

Option

- Accessory
- CE Approved (HC-NR)

Application

- Hoppers, Tanks

Description

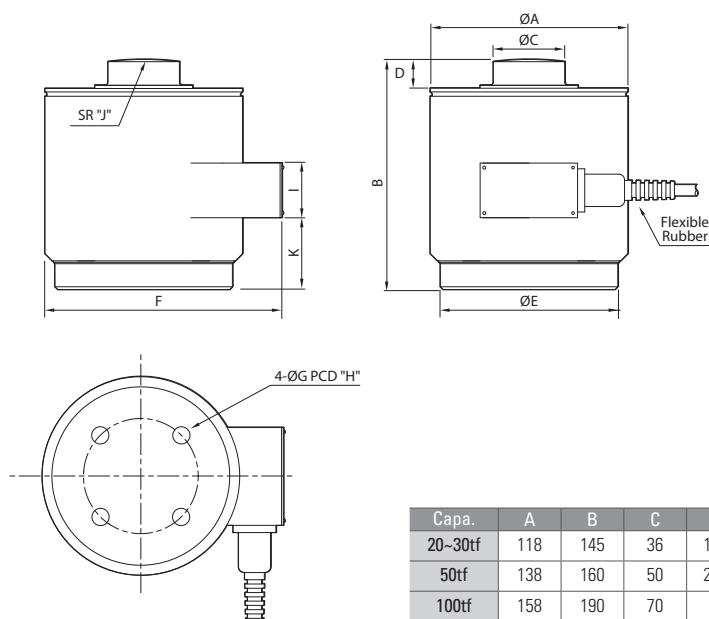
HC is a canister type load cell of steel material. Sealed pressure type of load cell suitable for rough industrial environments such as hoppers, silos, and tank scales.

Specifications

Capacity(R.L.)	tf	20, 30, 50, 100, 200
Rated Output	mV / V	2.0 ± 0.002
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.15
Hysteresis	% R.O.	≤ 0.15
Combined Error	% R.O.	≤ 0.15
Repeatability	% R.O.	≤ 0.1
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/700
Division	mV / V	0.0028
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +70
Operating Temperature Range	°C	-30 to +80
Material	-	Steel / Coating
Cable Specification	-	Ø8 x 4P x 10m (PVC)
Safety Overload	% R.L.	150

Dimensions

► HC



Capa.	A	B	C	D	E	F	G	H	I	J	K	Cable(m)
20~30tf	118	145	36	10.4	104	148.7	M12 x 1.75	80	38	150	40	10
50tf	138	160	50	20.2	124	170.5	M12 x 1.75	80	38	200	50	
100tf	158	190	70	20	144	191.3	M16 x 2	100	38	200	54	
200tf	214	230	95	29.8	188	249.5	M16 x 2	130	38	300	73	

HC-NR

Noise Resistance
Canister Load Cell



Description

HC-NR is a canister type load cell of steel material with a strong electrical durability. Internal protection circuits provide protection against noise, surge, and lightning. Sealed pressure type of load cell suitable for rough industrial environments such as hoppers and tanks and silo scales.

Specifications

Capacity(R.L.)	tf	20, 30, 50, 100, 200
Rated Output	mV / V	2.0±0.005
Zero Balance	mV / V	0.0±0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.15
Hysteresis	% R.O.	≤ 0.15
Combined Error	% R.O.	≤ 0.15
Repeatability	% R.O.	≤ 0.1
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/700
Division	mV / V	0.0028
Temperature Effect on	-Zero Value -Output Value	≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		350 ± 3.5 350 ± 3.5 ≥ 500
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel / Coating
Cable Specification	-	Ø8 x 4P x 10m (PVC)
Safety Overload	% R.L.	150
Electrical Character	- Over Voltage - RS - Surge	V. % MHz kV
		75 AC/DC ±25% 80 ~ 1000MHz, 10V/m ±2

Features

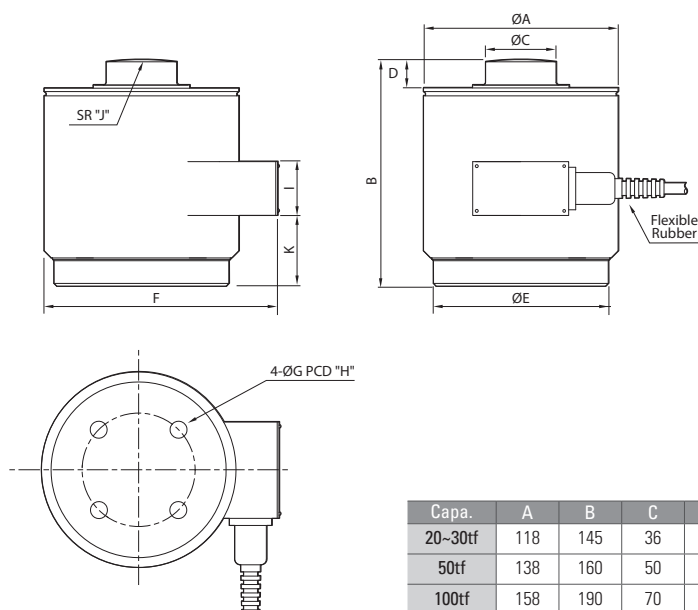
- Pressure type
- Hermetically sealed structure
- Built-in noise and surge protection circuit
- CE Approval
- Designed according to IP67

Application

- Hoppers, Silos, Tanks
- Compress equipment

Dimensions

► HC-NR



Capa.	A	B	C	D	E	F	G	H	I	J	K	Cable(m)
20~30tf	118	145	36	10.4	104	148.7	M12 x 1.75	80	38	150	40	10
50tf	138	160	50	20.2	124	170.5	M12 x 1.75	80	38	200	50	
100tf	158	190	70	20	144	191.3	M16 x 2	100	38	200	54	
200tf	214	230	95	29.8	188	249.5	M16 x 2	130	38	300	73	

HC-D

Digital Canister Load Cell



Features

- Pressure type
- Hermetically sealed structure
- Built-in noise and surge protection circuit
- CE Approved
- Designed according to IP67

Application

- Hoppers, Silos, Tanks
- Compress equipment

Description

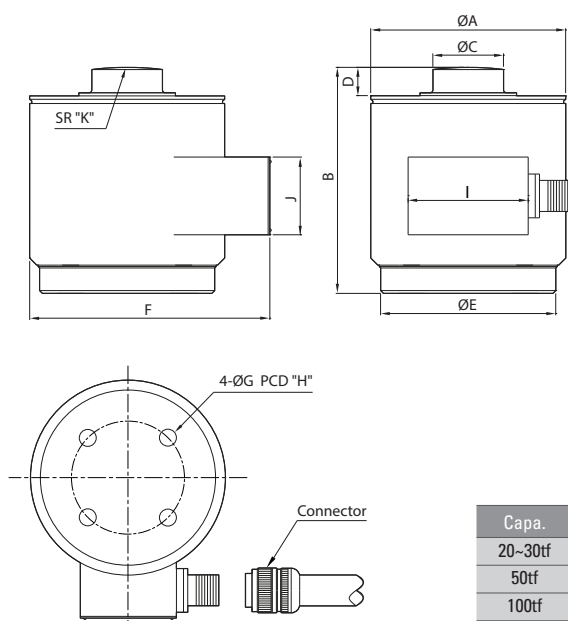
HC-D is a Canister type loadcell of steel material. It can not only be individually diagnosed with digital output but also enables easy loadcell replacement, problem detection, eccentricity compensation. Close structured compression type loadcell is suitable for rough industrial environment such as hoppers, tanks and silo scales.

Specifications

Capacity(R.L.)		tf	20, 30, 50, 100, 200
Rated Output		counts	300,000
Zero Balance		counts	± 300
Non-Linearity		% R.O.	< 0.015
Hysteresis		% R.O.	< 0.015
Combined Error		% R.O.	< 0.015
Repeatability		% R.O.	< 0.01
Creep for 30min.		% R.O.	< 0.017
Temperature Effect on	- Zero Value	% R.O./10°C	0.014
	- Output Value	% R.O./10°C	0.011
Compensated Temperature Range		°C	-10 ~ +40
Operating Temperature Range		°C	-30 ~ +80
Excitation	- Minimum	V	6
	- Recommended	V	9
	- Maximum	V	24
Insulation		MΩ	≥ 2,000
Safety Overload		% R.C.	150
Material		-	Steel / Coating
Communication Method		-	RS-485 (2wire)
Communication Speed		kbit/sec	19.2
Max Cable Length for Communication		m	1,000
Warm-up Time from Cold Start		minutes	15
Asynchronous Interface Baudrate		Baud	9,600 ~ 115,200
Number of bus addresses		-	Max. 32

Dimensions

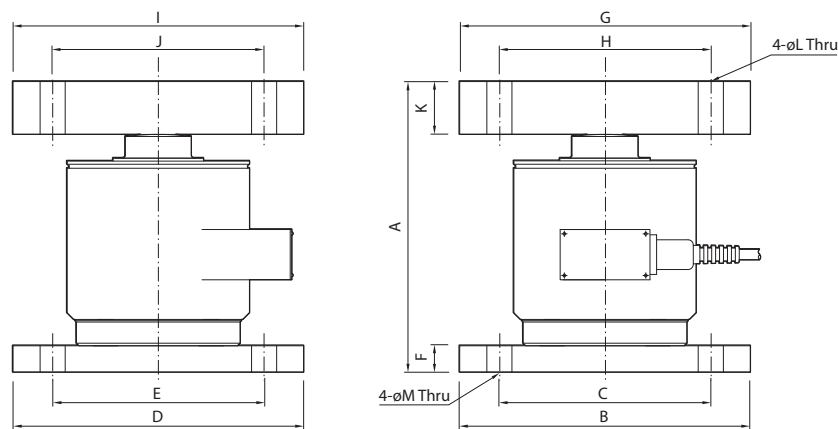
► HC-D



Capa.	A	B	C	D	E	F	G	H	I	J	Cable(m)
20~30tf	118	145	36	10	104	162.5	M12 x 1.75	80	85	55	10
50tf	138	160	50	20	124	182.5	M12 x 1.75	80			
100tf	158	190	70	20	144	202.5	M16 x 2	100			
200tf	214	230	95	30	188	261.5	M16 x 2	130			

Accessory Dimensions

► HC (Upper & lower plate)



Capa.	A	B	C	D	E	F	G	H	I	J	K	ØL	ØM
20~30tf	190	200	150	200	150	15	200	150	200	150	30	14	14
50tf	220	220	160	220	160	20	220	160	220	160	40	19	19
100tf	280	260	200	260	200	30	260	200	260	200	60	23	23
200tf	350	280	200	280	200	40	280	200	280	200	80	27	27

Canister

Noise Resistance

Explosion Proof

Digital

Accessory

HCS

Canister
Load Cell

Description

HCS is a stainless steel Canister type loadcell. Close structured compression type loadcell is suitable for rough industrial environment such as hoppers, tanks and silo scales.

Specifications

Capacity(R.L.)	tf	100, 200, 300
Rated Output	mV / V	2.0 ± 0.002
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.5
Hysteresis	% R.O.	≤ 0.5
Combined Error	% R.O.	≤ 0.5
Repeatability	% R.O.	≤ 0.1
Creep for 30min.	% R.O.	≤ 0.05
Return for 30min.	% R.O.	≤ 0.05
Resolution	-	$\leq 1/200$
Division	mV / V	0.01
Temperature Effect on	-Zero Value -Output Value	≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V 15
Resistance	-Input -Output -Insulation	Ω Ω M Ω
Compensated Temperature Range	$^{\circ}\text{C}$	-10 to +70
Operating Temperature Range	$^{\circ}\text{C}$	-30 to +80
Material	-	Stainless Steel
Cable Specification	-	$\varnothing 8 \times 4\text{P} \times 10\text{m} / \varnothing 8 \times 4\text{P} \times 20\text{m}$ (PVC)
Safety Overload	% R.L.	150

Features

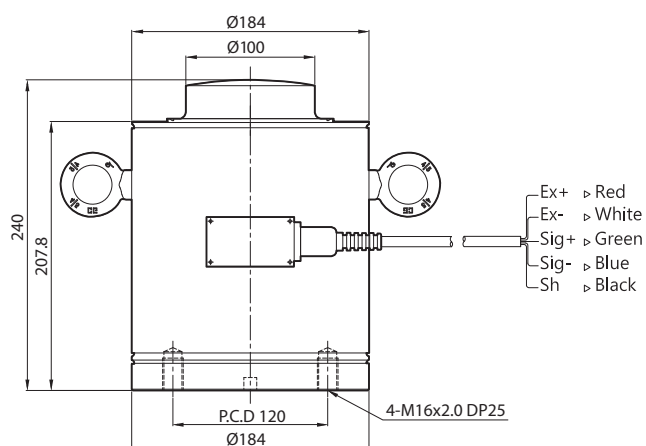
- Compressed type
- Stainless Steel Material
- Hermetically sealed structure
- Anti-Explosive Structure (Pressure resistant, Dust ignition)
- Designed according to IP68

Application

- Hopper, Tank scale

Dimensions

► HC



HCS-EXP

Explosion Proof
Canister Load Cell



Description

HCS-EXP is a stainless steel Canister type loadcell. The antiexplosive structure is suitable for explosive-hazard environments where hoppers, tanks and silo scales are used. The IP68 level stainless steel structure can endure humid areas.

Specifications

Capacity(R.L.)	tf	100, 200, 300
Rated Output	mV / V	2.0 ± 0.002
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.5
Hysteresis	% R.O.	≤ 0.5
Combined Error	% R.O.	≤ 0.5
Repeatability	% R.O.	≤ 0.1
Creep for 30min.	% R.O.	≤ 0.05
Return for 30min.	% R.O.	≤ 0.05
Resolution	-	≤ 1/200
Division	mV / V	0.01
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +70
Operating Temperature Range	°C	-30 to +80
Material	-	Stainless Steel
Cable Specification	-	Ø8 x 4P x 10m/ Ø8 x 4P x 20m (Urethane)
Safety Overload	% R.L.	150

Features

- Compressed type
- Stainless Steel Material
- Hermetically sealed structure
- Anti-Explosive Structure (Pressure resistant, Dust ignition)
- Designed according to IP68

Option

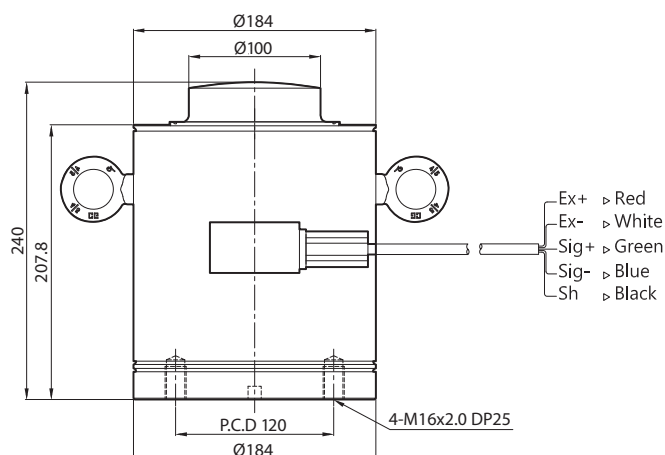
- Pressure resistant (Ex d IIC T6)
- Dust ignition (EX tD A21 T85°C IP68)

Application

- Hoppers, Tank scales

Dimensions

► HC



WBKCanister
Load Cell

Features

- Compressed type
- Stainless Steel Material
- Hermetically sealed structure
- Designed according to IP68 standard
- OIML C3 Approved (OIML R60, 10~50tf)
- Anti-Surge circuit

Option

- Intrinsic safety (Ex ia IIC T4)
- Pressure resistant (Ex d IIC T6)
- Dust ignition (EX tD A21 T85°C IP68)
- Truckscale Accessory SET
- WBK-NR (CE Certification)

Application

- Hopper, Silo, Tank Scale
- Truck scale

Description

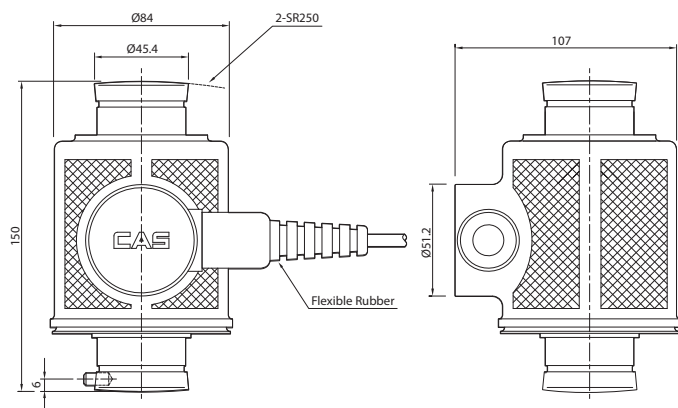
WBK is a stainless steel canister type loadcell. Close structured compression type loadcell is suitable for rough industrial environment such as hoppers, tanks and silo scales.

Specifications

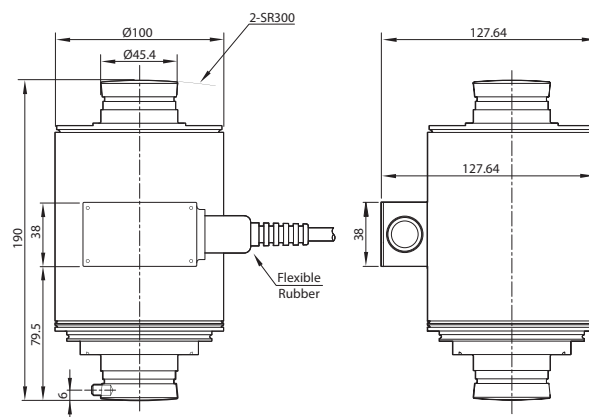
Capacity(R.L.)	tf	10, 20, 25, 30, 50, 100	
Rated Output	mV / V	2.0 ± 0.005	
Zero Balance	mV / V	0.0 ± 0.020	
Accuracy Class	-	C3	-
Non-Linearity	% R.O.	≤ 0.02	≤ 0.03
Hysteresis	% R.O.	≤ 0.02	≤ 0.03
Combined Error	% R.O.	≤ 0.02	≤ 0.03
Repeatability	% R.O.	≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.017	≤ 0.03
Return for 30min.	% R.O.	≤ 0.017	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/3000
Division	mV / V	0.0004	0.00067
Temperature Effect on	-Zero Value	%/10°C	≤ 0.014
	-Output Value	%/10°C	≤ 0.011
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	350 ± 3.5
	-Output	Ω	350 ± 3.5
	-Insulation	MΩ	> 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-40 to +80	
Material	-	Stainless Steel	
Cable Specification	-	Ø8 x 4P x 12m (PVC)	
Safety Overload	% R.L.	150	

Dimensions

► WBK (10tf~30tf)



► WBK (50tf~100tf)



WBK-NR

Noise Resistance
Canister Load Cell

Features

- Compressed type
- Stainless Steel Material
- Hermetically sealed structure
- Designed according to IP68
- Anti-Surge circuit
- CE Approved

Option

- Truckscale Accessory SET
- WBK-NR (CE Certification)

Application

- Hoppers, Silos and Tank Scales
- Truck Scales

Description

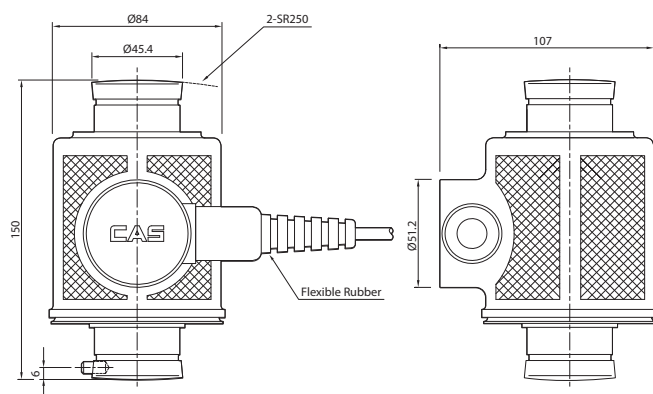
WBK-NR is stainless steel canister type loadcell with strong electrical endurance. Built in protection circuit can protect the loadcell from various noise, surge, and lightning. Close structured compression type loadcell is suitable for rough industrial environment such as hoppers, tanks and silo scales.

Specifications

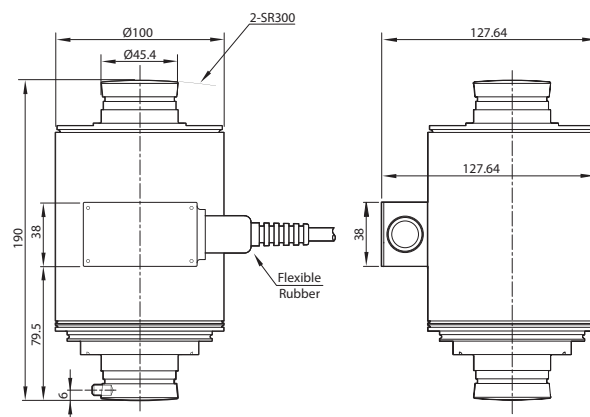
Capacity(R.L.)	tf	10, 20, 25, 30, 50, 100
Rated Output	mV / V	2.0±0.005
Zero Balance	mV / V	0.0±0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤0.02
Hysteresis	% R.O.	≤0.02
Combined Error	% R.O.	≤0.02
Repeatability	% R.O.	≤0.01
Creep for 30min.	% R.O.	≤0.017
Return for 30min.	% R.O.	≤0.017
Resolution	-	≤1/5000
Division	mV / V	0.0004
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
		≤0.014 ≤0.014
Excitation	-Recommended -Maximum	V V
		10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ
		350 ± 3.5 350 ± 3.5 ≥ 500
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-40 to +80
Material	-	Stainless Steel
Cable Specification	-	Ø8 x 6P x 10m / Ø8 x 4P x 25m (PVC) Ø8 x 6P x 12m (Urethane)
Safety Overload	% R.L.	150
Electrical Character	- Over Voltage - RS - Surge	V. % MHz kV
		75 AC/DC ±25% 80 ~ 1000MHz, 10V/m ±2

Dimensions

► 10tf~30tf



► 50tf~100tf



WBK-EXP

Explosion Proof
Canister Load Cell

Features

- Compressed type
- Stainless Steel Material
- Explosion-proof Structure
- Hermetically sealed structure
- Designed according to IP68

Option

- Intrinsic safety (Ex ia IIC T4)
- Pressure resistant (Ex d IIC T6)
- Dust ignition (EX tD A21 T85°C IP68)
- Truckscale Accessory SET
- WBK-NR (CE Certification)

Application

- Hoppers, Silos, Tank Scales
- Truck Scales

Description

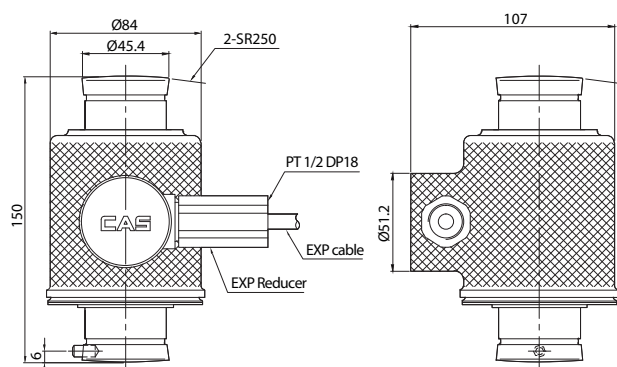
WBK-EXP is a stainless steel Canister type loadcell. The antiexplosive structure is suitable for explosive-hazard environments where hopper, tank, and silo scale are used. The IP68 level stainless steel structure can endure humid areas.

Specifications

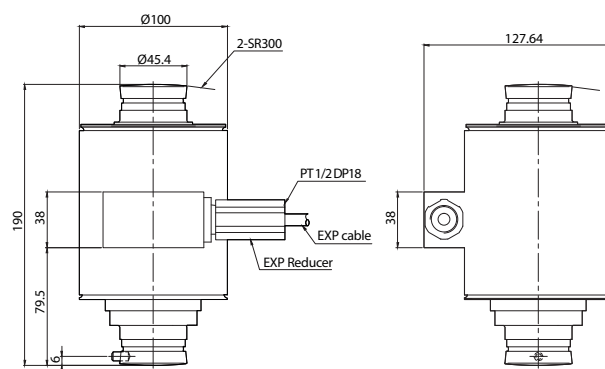
Capacity(R.L.)	tf	10, 20, 25, 30, 50, 100	
Rated Output	mV / V	2.0 ± 0.005	
Zero Balance	mV / V	0.0 ± 0.02	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.03
Hysteresis	% R.O.	≤ 0.02	≤ 0.03
Combined Error	% R.O.	≤ 0.02	≤ 0.03
Repeatability	% R.O.	≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.017	≤ 0.03
Return for 30min.	% R.O.	≤ 0.017	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/3000
Division	mV / V	0.0004	0.00067
Temperature Effect on	-Zero Value	%/10°C	≤ 0.14
	-Output Value	%/10°C	≤ 0.11
Excitation	-Recommended	V	10
	-Maximum	V	28
Resistance	-Input	Ω	350 ± 3.5
	-Output	Ω	350 ± 3.5
	-Insulation	MΩ	> 2000
Compensated Temperature Range	°C	-10 to + 40	
Operating Temperature Range	°C	-30 to + 80	
Material	-	Stainless Steel	
Cable Specification	-	Ø8 x 4P x 10m (Urethane)	
Safety Overload	% R.L.	150%	

Dimensions

► 10tf~30tf (Intrinsic safety, Pressure resistance, Dust ignition proof)



► 50tf~100tf (Intrinsic safety, Pressure resistance, Dust ignition proof)



* Intrinsic safety 10~50tf

WBK-D

Digital
Canister Load Cell



Description

WBK-D is a stainless steel canister type loadcell. Digital output enables diagnose each loadcell individually, and it can control the weight, eccentricity compensation, diagnose problem, loadcell replacement in simple way. Close structured compression type loadcell is suitable for rough industrial environment such as hoppers, tanks, silo scales, etc.

Specifications

Capacity(R.L.)	tf	10, 20, 25, 30
Rated Output	counts	300,000
Zero Balance	counts	± 300
Accuracy Class	-	C4
Non-Linearity	% R.O.	< 0.015
Hysteresis	% R.O.	< 0.015
Combined Error	% R.O.	< 0.015
Repeatability	% R.O.	< 0.01
Creep for 30min.	% R.O.	< 0.017
Temperature Effect on	- Zero Value - Output Value	% R.O./10°C % R.O./10°C
Compensated Temperature Range	°C	-10 ~ +40
Operating Temperature Range	°C	-40 ~ +80
Excitation	- Minimum - Recommended - Maximum	V V V
Insulation	MΩ	≥ 2,000
Safety Overload	% R.C.	150
Material	-	Stainless Steel
Communication Method	-	RS-485 (2wire)
Communication Speed	kbit/sec	19.2
Max Cable Length for Communication	m	1,000
Warm-up Time from Cold Start	minutes	15
Asynchronous Interface Baudrate	Baud	9,600 ~ 115,200
Number of bus addresses	-	Max. 32

Features

- Compressed type
- Stainless Steel Material
- High resolution digital output
- Hermetically sealed structure
- Designed according to IP68 standard
- OIML C4 Approved (OIML R60, 10~50tf)
- CE Approved

Option

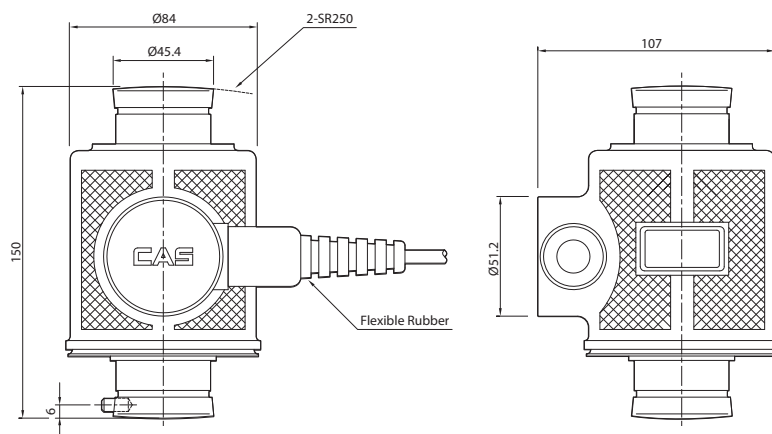
- Truckscale Accessory SET

Application

- Hoppers, Silos, Tank Scales
- Truck Scales

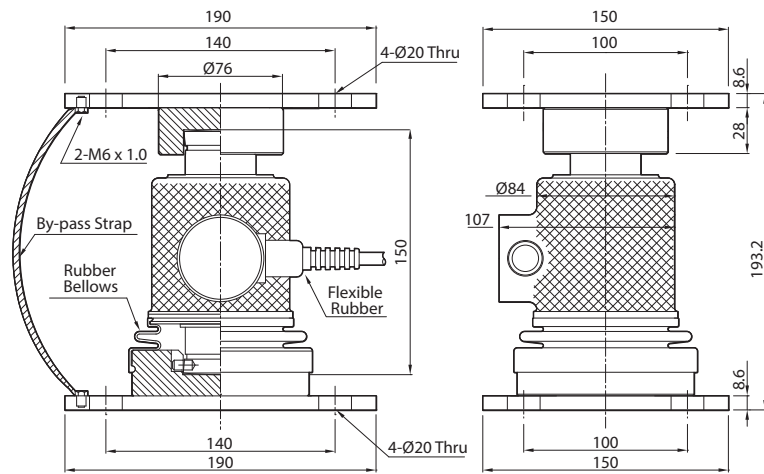
Dimensions

► WBK-D

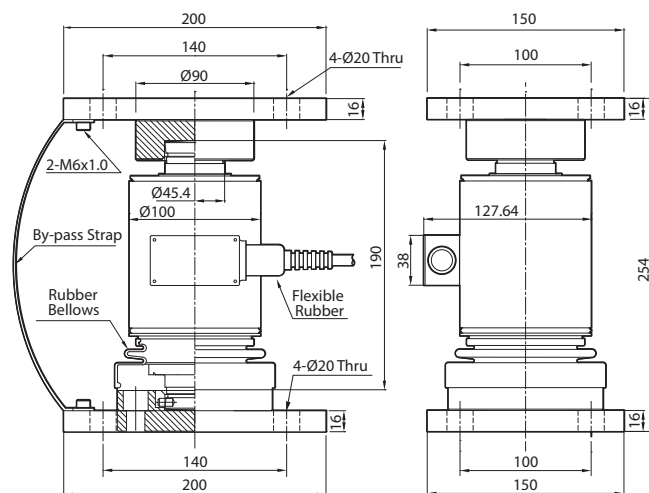


Accessory Dimensions

► WBK (10tf~30tf)



► WBK (50tf~100tf)



NWBK

Canister Load Cell



Features

- Compressed type
- Stainless Steel Material
- Hermetically sealed structure
- Designed according to IP68

Option

- Truckscale Accessory SET

Application

- Hoppers, Silos, Tank Scales
- Truck Scales

Description

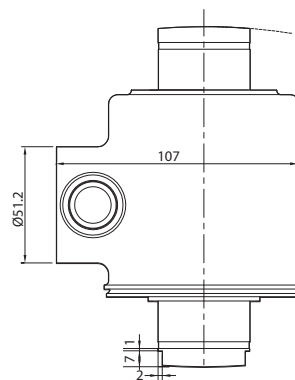
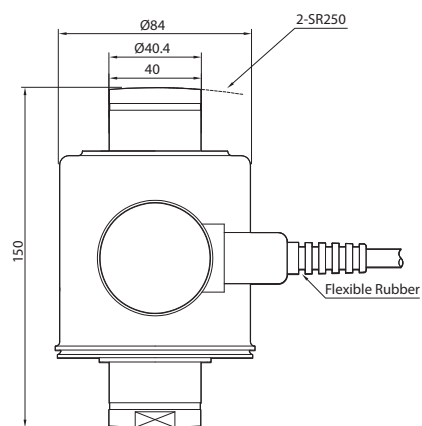
NWBK is a stainless steel canister type loadcell. Close structured compression type loadcell is suitable for rough industrial environment such as hoppers, tanks and silo scales .

Specifications

Capacity(R.L.)		tf	10, 25, 30	
Rated Output	mV / V		2.0 ± 0.005	
Zero Balance	mV / V		0.0 ± 0.020	
Accuracy Class	-		A	B
Non-Linearity	% R.O.		≤ 0.02	≤ 0.03
Hysteresis	% R.O.		≤ 0.02	≤ 0.03
Combined Error	% R.O.		≤ 0.02	≤ 0.03
Repeatability	% R.O.		≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.		≤ 0.017	≤ 0.03
Return for 30min.	% R.O.		≤ 0.017	≤ 0.03
Resolution	-		≤ 1/5000	≤ 1/3000
Division	mV / V		0.0004	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.014 ≤ 0.011	≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V	10 15	
Resistance	-Input -Output -Insulation	Ω Ω MΩ	350 ± 3.5 350 ± 3.5 > 2000	
Compensated Temperature Range	°C		-10 to +40	
Operating Temperature Range	°C		-40 to +80	
Material	-		Stainless Steel / Steel Coating	
Cable Specification	-		Ø8 x 4P x 12M (PVC)	
Safety Overload	% R.L.		150	

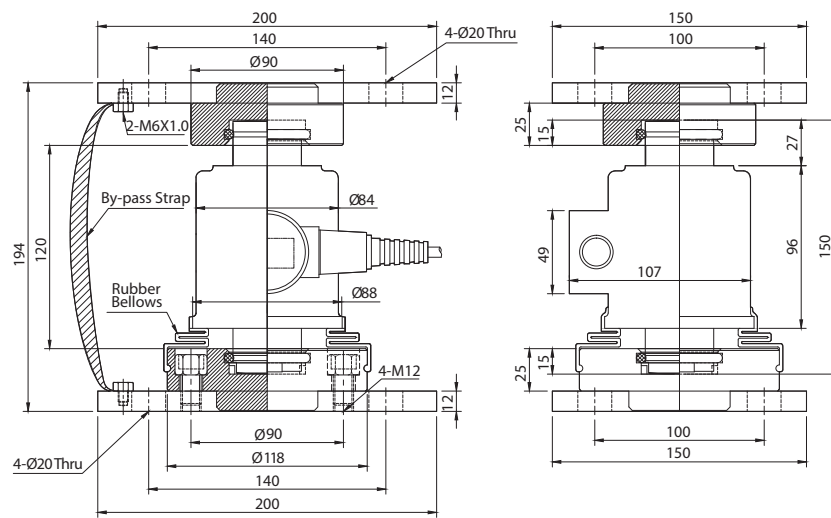
Dimensions

► NWBK



Accessory Dimensions

► NWBK



WBKL

Canister
Load Cell

Features

- Compressed type
- Hermetically sealed structure
- Designed according to IP68

Option

- Truckscale Accessory SET

Application

- Hopper, Silo, Tank Scale
- Truck scale

Description

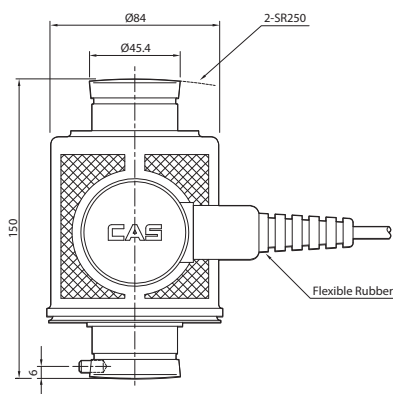
WBKL is a Canister type load cell of steel. Compressed type load cells with a sealed structure are suitable for harsh industrial environments such as hoppers, tanks, silos, and truck scales.

Specifications

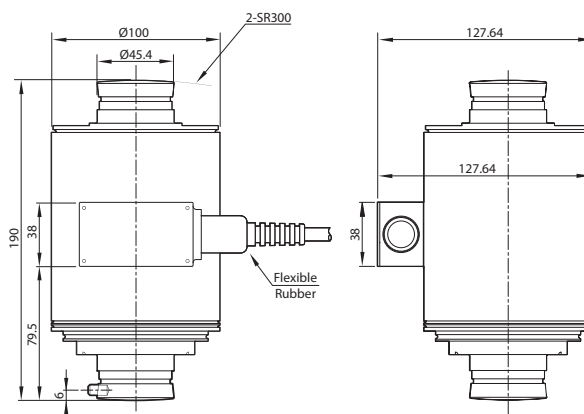
Capacity(R.L.)	tf	10, 20, 25, 30, 50, 100	
Rated Output	mV / V	2.0 ± 0.005	
Zero Balance	mV / V	0.0 ± 0.020	
Accuracy Class	-	A	B
Non-Linearity	% R.O.	≤ 0.02	≤ 0.03
Hysteresis	% R.O.	≤ 0.02	≤ 0.03
Combined Error	% R.O.	≤ 0.02	≤ 0.03
Repeatability	% R.O.	≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.	≤ 0.017	≤ 0.03
Return for 30min.	% R.O.	≤ 0.017	≤ 0.03
Resolution	-	≤ 1/5000	≤ 1/3000
Division	mV / V	0.0004	0.00067
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.014 ≤ 0.011
Excitation	-Recommended -Maximum	V V	10 15
Resistance	-Input -Output -Insulation	Ω Ω MΩ	350 ± 3.5 350 ± 3.5 > 2000
Compensated Temperature Range	°C	-10 to +40	
Operating Temperature Range	°C	-40 to +80	
Material	-	Steel	
Cable Specification	-	Ø8 x 4P x 12M (PVC)	
Safety Overload	% R.L.	150	

Dimensions

► WBKL (10tf~30tf)

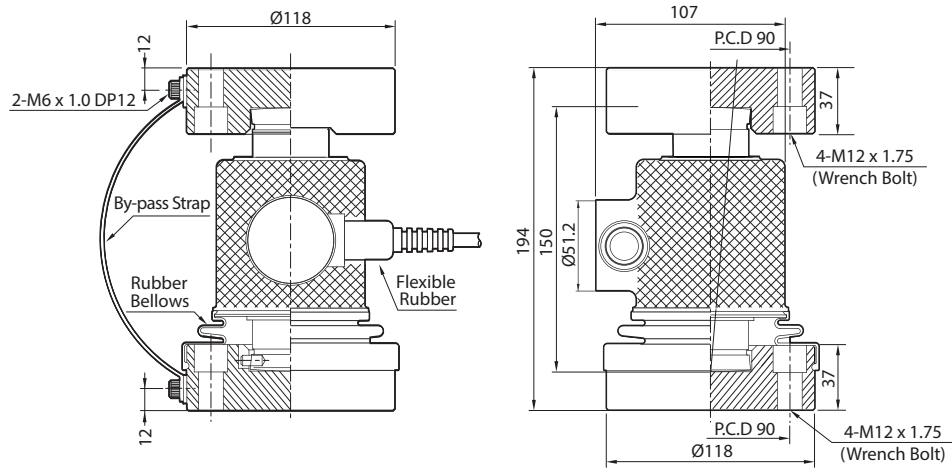


► WBKL (50tf~100tf)

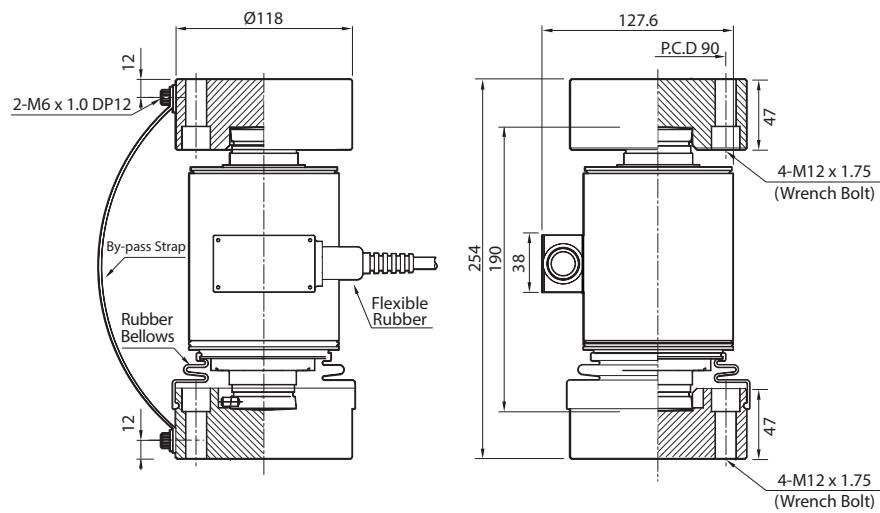


Accessory Dimensions

► 10tf~30tf



► 50tf~100tf



WBKC

Canister
Load Cell

Features

- Compressed type
- Hermetically sealed structure
- Designed according to IP68

Option

- Truckscale Accessory SET

Application

- Hopper, Silo, Tank Scale
- Truck scale

Description

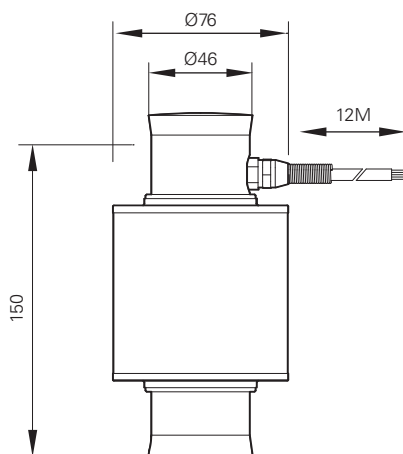
WBKC is a stainless steel Canister type load cell. Compressed type load cells with a sealed structure are suitable for harsh industrial environments such as hoppers, tanks, silos, and truck scales.

Specifications

Capacity(R.L.)		tf	10, 20, 25, 30	
Rated Output		mV / V	2.0 ± 0.005	
Zero Balance		mV / V	0 ± 0.02	
Accuracy Class		-	C3	-
Non-Linearity	% R.O.		≤ 0.02	≤ 0.03
Hysteresis	% R.O.		≤ 0.02	≤ 0.03
Combined Error	% R.O.		≤ 0.02	≤ 0.03
Repeatability	% R.O.		≤ 0.01	≤ 0.02
Creep for 30min.	% R.O.		≤ 0.017	≤ 0.03
Return for 30min.	% R.O.		≤ 0.017	≤ 0.03
Resolution		-	≤ 1/5000	≤ 1/3000
Division		mV / V	0.0004	0.00067
Temperature Effect on	-Zero Value	%/10°C	≤ 0.014	≤ 0.028
	-Output Value	%/10°C	≤ 0.011	≤ 0.015
Excitation	-Recommended	V	10	
	-Maximum	V	15	
Resistance	-Input	Ω	350 ± 3.5, 700 ± 7	
	-Output	Ω	350 ± 3.5, 700 ± 7	
	-Insulation	MΩ	> 2000	
Compensated Temperature Range		°C	-10 to + 40	
Operating Temperature Range		°C	-30 to + 70	
Material		-	Stainless Steel	
Cable Specification		-	5Ø × 4P or 6P × 12M/15M (Urethane/PVC)	
Safety Overload		% R.L.	150	

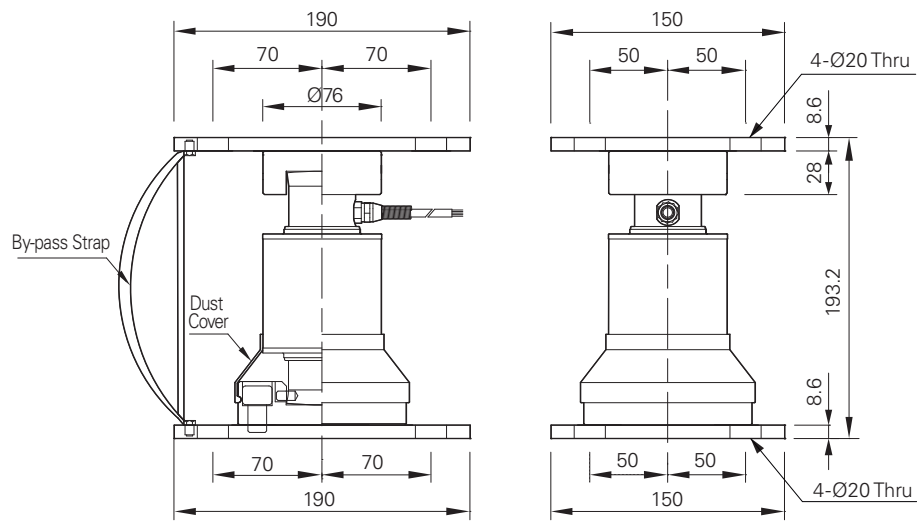
Dimensions

► WBKC

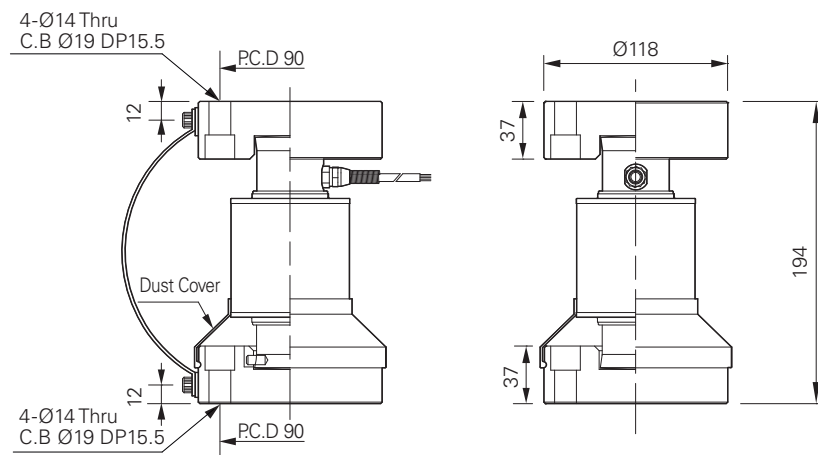


Accessory Dimensions

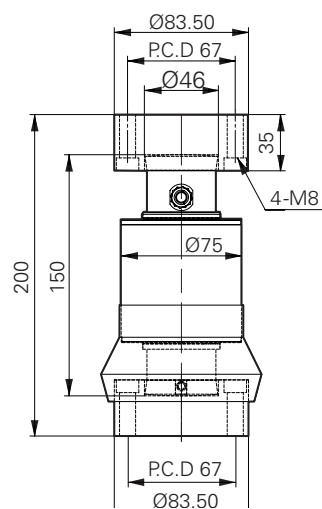
► WBKC TYPE1



► WBKC TYPE2



► WBKC TYPE3

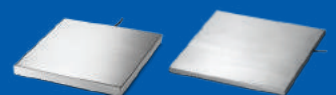




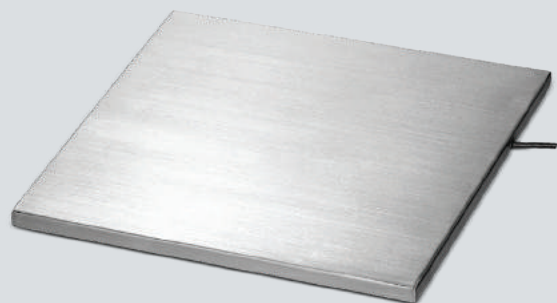
Platform Type Load Cell

SPL / EPL

CAS is a leading manufacturer of weighing and measurement tools, and provides high accurate and precise load cells suitable for Industrial Areas.



SPL | Slim Platform Type Load Cell



Features

- Slim structure
- Stainless steel material (cover)
- Various capacities from 50kg to 400kg
- Structure suitable for gas cylinder weighing

Option

- 2-wire Transmitter: Built-in 4 ~ 20mA

Application

- Application to various industrial weighing devices

Description

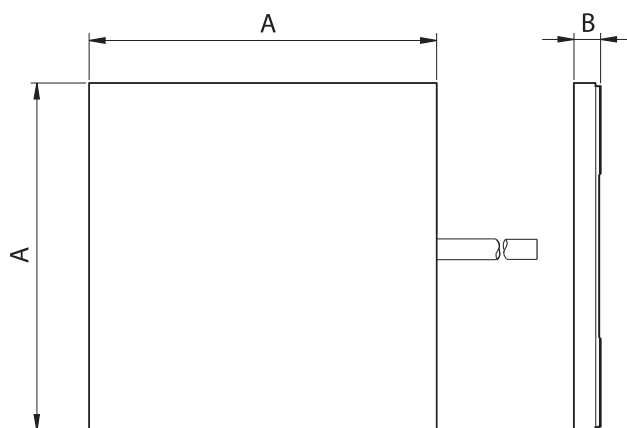
SPL is a platform type load cell of zinc plated steel and stainless steel material (cover). It is mainly used for various industrial weighing devices with its slim structure.

Specifications

Capacity(R.L.)	kgf	50, 60, 100, 200, 300, 400
Rated Output	mV / V	2.0 ± 0.2
Zero Balance	mV / V	0.0 ± 0.1
Accuracy Class	-	-
Non-Linearity	% R.O.	≤ 0.05
Hysteresis	% R.O.	≤ 0.05
Combined Error	% R.O.	≤ 0.05
Repeatability	% R.O.	≤ 0.05
Creep for 30min.	% R.O.	≤ 0.03
Return for 30min.	% R.O.	≤ 0.03
Resolution	-	≤ 1/2000
Division	mV / V	0.001
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C
Excitation	-Recommended -Maximum	V V
Resistance	-Input -Output -Insulation	Ω Ω MΩ
Compensated Temperature Range	°C	-10 to +40
Operating Temperature Range	°C	-30 to +80
Material	-	Steel (plate) / Stainless Steel (cover)
Cable Specification	-	Ø5.4 x 4P x 5m (Urethane) Ø5.4 x 2P x 5m (Urethane) transmitter type
Safety Overload	% R.L.	150%

Dimensions

► SPL



Capa.	A	B
50kgf	300	23
60kgf		23
100kgf		24
200kgf		25
300kgf		28
400kgf		29

EPLSlim Platform Type
Load Cell**Description**

EPL is a platform type load cell of aluminum and stainless steel material (cover). It is mainly used for various industrial weighing devices.

Specifications

Capacity(R.L.)		kgf	100, 200
Rated Output	mV / V		2.0 ± 0.1
Zero Balance	mV / V		0.0 ± 0.1
Accuracy Class		-	-
Non-Linearity	% R.O.		0.1
Hysteresis	% R.O.		0.1
Combined Error	% R.O.		0.1
Repeatability	% R.O.		0.1
Creep for 30min.	% R.O.		0.06
Return for 30min.	% R.O.		0.06
Resolution	-		1/1000
Division	mV / V		0.002
Temperature Effect on	-Zero Value -Output Value	%/10°C %/10°C	≤ 0.03 ≤ 0.03
Excitation	-Recommended -Maximum	V V	10 15
Resistance	-Input	Ω	820 ± 20
	-Output	Ω	700 ± 7
	-Insulation	MΩ	2000
Compensated Temperature Range	°C		-10 to +40
Operating Temperature Range	°C		-30 to +80
Material		-	aluminum (plate) / stainless steel (cover)
Cable Specification		-	Ø5.4 x 4P x 5m (Urethane)
Safety Overload		% R.L.	150

Features

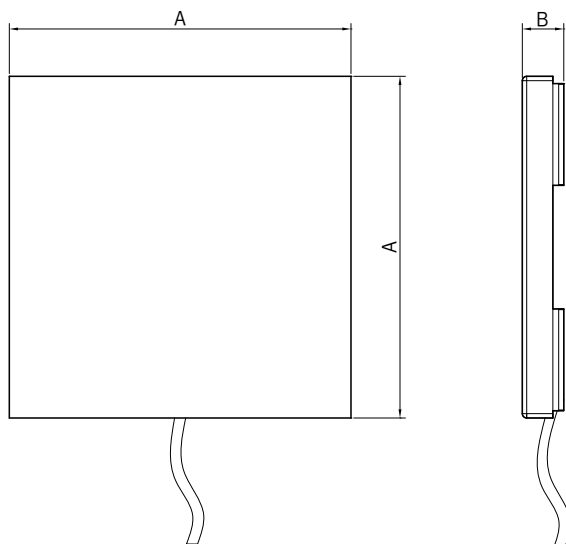
- Slim structure
- Stainless steel material (cover)

Application

- Application to various industrial weighing devices

Dimensions

► EPL



Capa.	A	B
100kgf	250	29.5
200kgf	300	

INDUSTRIAL WEIGHING SOLUTION™



Special Type Load Cell

MAS (2, 3, 5, 6 Axis)

CAS has excellent technology in metering, and control, and provides high accurate and precise load cells for various industrial environments.



MAS | Multi Axis Load Cell (2Axis, 3Axis)



Description

MAS is a Multi Axis type load cell of aluminum material. Simultaneously measures forces or moments in various directions to show the force and moment of the X, Y and Z axes acting in any direction.

Specifications

Capacity(R.L.)	kgf	2, 5, 10, 20, 50
Rated Output	mV / V	0.5 ± 0.005
Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class	-	-
Non-Linearity	% R.O.	≤0.5% FS for each component force
Hysteresis	% R.O.	≤0.5% FS for each component force
Combined Error	% R.O.	≤0.5% FS for each component force
Temperature Effect on	-Zero Value -Output Value	± 0.01% FS/°C for each component force ± 0.06% FS/°C for each component force
Excitation	-Recommended -Maximum	V V
Resistance	-Input -Output -Insulation	Ω Ω MΩ
Material	-	aluminum
Cable Specification	-	ø5.4 x 4p x 5m (Urethane)
Safety Overload	% R.L.	150% FS for each component force

Features

- 2 to 3-axis configuration of various capacities
- High accuracy less than 0.5% for each axis
- Customized specifications (capacity, size)
(Fx, Fy, Fz 3-Axis specifications are 5 ~ 6 Axis size)

Option

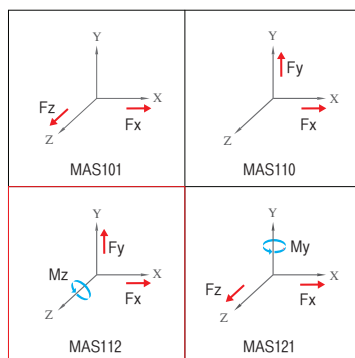
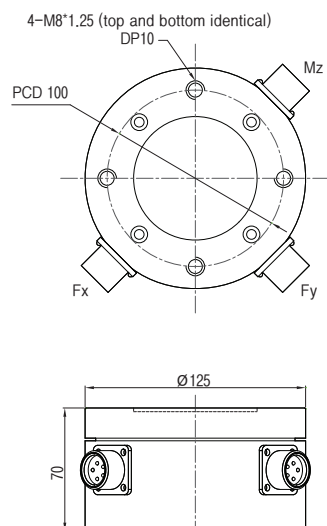
- 2-Axis (MAS101, MAS110)
- 3-Axis (MAS112, MAS121)

Application

- Robot joint
- Wind tunnel test
- Other Tester

Dimensions

► MAS 112



Type		Rated Load (Allowable Moment)					
		Fx (kgf)	Fy (kgf)	Fz (kgf)	Mx (kgf·m)	My (kgf·m)	Mz (kgf·m)
2AXIS	MAS101	2L	2	-	-	-	-
		5L	5	-	-	-	-
		10L	10	-	-	-	-
		20L	20	-	-	-	-
		50L	50	-	-	-	-
	MAS110	2L	2	2	-	-	-
		5L	5	5	-	-	-
		10L	10	10	-	-	-
		20L	20	20	-	-	-
		50L	50	50	-	-	-

Type		Rated Load (Allowable Moment)					
		Fx (kgf)	Fy (kgf)	Fz (kgf)	Mx (kgf·m)	My (kgf·m)	Mz (kgf·m)
3AXIS	MAS112	2L	2	2	-	-	0.2
		5L	5	5	-	-	0.5
		10L	10	10	-	-	1
		20L	20	20	-	-	2
		50L	50	50	-	-	5
	MAS121	2L	2	-	2	0.2	-
		5L	5	-	5	0.5	-
		10L	10	-	10	1	-
		20L	20	-	20	2	-
		50L	50	-	50	5	-

MAS | Multi Axis Load Cell (5 Axis, 6 Axis)



Features

- 5 to 6-axis configuration of various capacities
- High accuracy less than 0.5% for each axis
- Customized specifications (capacity, size)

Option

- 5-Axis (MAS101, MAS110)
- 6-Axis (MAS112, MAS121)

Application

- Robot joint
- Wind tunnel test
- Other Tester

Description

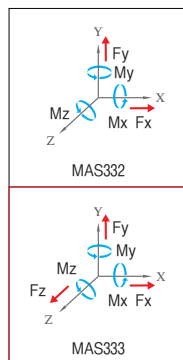
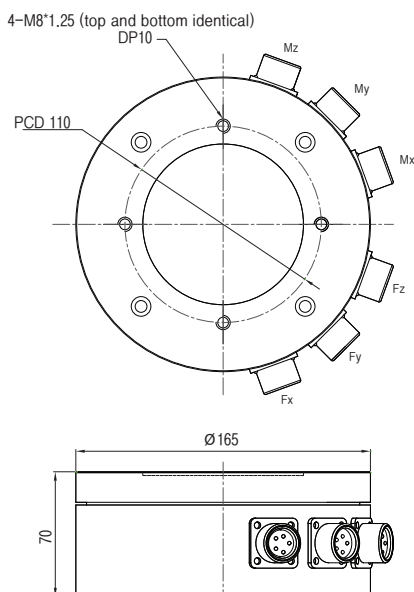
MAS is a Multi Axis type load cell of aluminum material. Simultaneously measures forces or moments in various directions to show the force and moment of the X, Y and Z axes acting in any direction.

Specifications

Capacity(R.L.)		kgf	2, 5, 10, 20, 50
Rated Output	mV / V		0.5 ± 0.005
	Zero Balance	mV / V	0.0 ± 0.02
Accuracy Class		-	-
Non-Linearity	% R.O.		≤0.5% FS for each component force
	Hysteresis	% R.O.	≤0.5% FS for each component force
	Combined Error	% R.O.	≤0.5% FS for each component force
Temperature Effect on	-Zero Value	%/10°C	± 0.01% FS/°C for each component force
	-Output Value	%/10°C	± 0.06% FS/°C for each component force
Excitation	-Recommended	V	10
	-Maximum	V	15
Resistance	-Input	Ω	350 ± 7
	-Output	Ω	350 ± 7
	-Insulation	MΩ	>2000
Material		-	aluminum
Cable Specification		-	ø5.4 x 4p x 5m (Urethane)
Safety Overload		% R.L.	150% FS for each component force

Dimensions

► MAS 333



Type			Rated Load(Allowable Moment)					
			Fx (kgf)	Fy (kgf)	Fz (kgf)	Mx (kgf·m)	My (kgf·m)	Mz (kgf·m)
5AXIS	MAS332	2L	2	2	-	0.2	0.2	0.2
		5L	5	5	-	0.5	0.5	0.5
		10L	10	10	-	1	1	1
		20L	20	20	-	2	2	2
		50L	50	50	-	5	5	5

Type			Rated Load (Allowable Moment)					
			Fx (kgf)	Fy (kgf)	Fz (kgf)	Mx (kgf·m)	My (kgf·m)	Mz (kgf·m)
6AXIS	MAS333	2L	2	2	2	0.2	0.2	0.2
		5L	5	5	5	0.5	0.5	0.5
		10L	10	10	10	1	1	1
		20L	20	20	20	2	2	2
		50L	50	50	50	5	5	5



Weighing Indicator/Controller/Component

CI-200 Series / CI-2001AN/BN / CI-2001AS/BS&CI-2400BS / BI-II / CI-150A / CI-170A
CI-1500A/1560A / CI-600A Series / CI-608A / CI-400A Series / CI-400AL Series
CI-600D Series / EXI-200AD / EXI-600AD Series / CD-3000 Series / TWN / WTM-200/500
DOM-01&DMP-4/8P / JB-P/PA / EXJB-P / LCP-01 / LCT^{PRO}

The CAS weighing indicators, controllers and components have high performance, high resolution and various interfaces that provides optimal solutions for various industrial sites.



CI-200 Series

Weighing
Indicator

CI-200A



CI-200S



CI-201A



CI-200SC

Features

- Clear LED/LCD display
- Number key & function key application
- Multi-purpose cradle (MPC)
- Easy weight setting (Full Digital Calibration)
- High speed of A/D conversion (80times/sec.)
- 1/10,000 high resolution
- Weight back-up
- 4 wire, 6 wire load cells support (can be connected 8 wire load cell)
- 2 Serial Ports (CI-200A/201A)
- Analog output (V-out/I-out)
- Comparing with weight through weight comparing blinker light (CI-200SC)

Option

- RS-442 / 485 interface

Specifications

Model	CI-200A/S/SC	CI-201A/S
Load cell excitation voltage	DC 5V	
No. of Load cell connection	8ea (350Ω)	
Zero Adjustment Range	0mV ~ 2mV/V	
Load cell Input Range	-1.2mV/V ~ 3.2mV/V	
Input sensitivity	0.5uV/D (OIML, KC, NTEP), 0.2uV/D (Non-approval)	
A/D Internal resolution	1/520,000	
A/D external resolution	1/10,000 (OIML, KC, NTEP), 1/20,000 (Non-approval, 2mV/V load cell)	
A/D conversion speed	Up to 80 times/sec	
Display	6digits LED (Character Height: 25mm) Weight Comparison Lamp (CI-200SC, UNDER/OK/OVER 3 Lights)	6digits LCD (Character Height : 8mm, Inc. Backlight)
Key	10 Numeric key, 5 Function keys	
Interface	CI-200A/201A : COM Port (RS-232C) x 2EA, CI-200S/200SC/201S : COM Port (RS-232C) x 1EA	
Operating Power	DC 6V Rechargeable battery, DC 12V Adaptor	
Battery Consumption Time	Approx. 33hours	Approx. 22hours
Charging Time	Approx. 12hours	
Operating Temp	-10 ~ 40°C	
Material	CI-200A/201A : ABS, CI-200S/CI-200SC/201S : Stainless Steel	
Product Size (W x D x H)	CI-200A/201A : 206 x 91 x 139mm, CI-200S/CI-200SC/201S : 250 x 83 x 193.7mm	
Product Weight	CI-200A/201A : 1.3kg, CI-200S/CI-200SC/201S : 1.5kg	

CI-2001A N/BN

Weighing
Indicator

CI-2001AN



CI-2001BN

Features

- Wall-mounted / Small Indicator
- Easy weight setting (Full Digital Calibration)
- Weight Back-Up (Saving of weight at sudden power failure)
- Watch-Dog circuitry (System restoration)

Option

- RS-422/485
- RTC (Real Time Clock, CI-2001BN)
- USB
- Panel Guide

Specifications

Model	CI-2001AN	CI-2001BN
Load cell excitation voltage	DC 5V	
No. of Load cell connection	4ea (350Ω)	
Zero Adjustment Range	0.05 mV ~ 5 mV	
Load cell Input Range	0 mV/V ~ 3.2 mV/V	
Input sensitivity	2uV/D (OIML, KC, NTEP), 0.5 uV/D (Non-approval)	
A/D Internal resolution	1/200,000	
A/D external resolution	1/5,000 (OIML, KC, NTEP) 1/30,000 (Non-approval)	
A/D conversion speed	Up to 10 times/sec	
Display	6digits LED (Character Height: 14mm)	5digits LCD (Character Height: 25mm)
Key	6 Function keys	
Interface	RS-232C	
Operating Power	DC 12V Adaptor	
Operating Temp	-10 ~ 40 °C	
Material	ABS	
Product Size (W x D x H)	186 x 58 x 85mm	
Product Weight	0.5kg	

CI-2001AS/BS & CI-2400BS

Weighing
Indicator

CI-2001AS



CI-2001BS



CI-2400BS

Features

- Wall-mounted / Small Indicator
- Easy weight setting (Full Digital Calibration)
- Weight Back-Up (Saving of weight at sudden power failure)
- Watch-Dog circuitry (System restoration)

Option

- RS-422/485
- RTC (Real Time Clock, CI-2001BN)
- External 4 Output (CI-2400BS)
- Rechargeable battery (CI-2400BS)

Specifications

Model	CI-2001AS	CI-2001BS	CI-2400BS
Load cell excitation voltage	DC 5V		
No. of Load cell connection	4ea (350Ω)		6ea (350Ω)
Zero Adjustment Range	0.05 mV ~ 5 mV		
Load cell Input Range	0 mV/V ~ 4 mV/V		
Input sensitivity	2uV/D (OIML, KC, NTEP), 0.5 uV/D (Non-approval)		
A/D Internal resolution	1/200,000		
A/D external resolution	1/5,000 (OIML, KC, NTEP), 1/30,000 (Non-approval)		1/5,000(OIML, KC, NTEP), 10,000 (Non-approval)
A/D conversion speed	Up to 10 times/sec		
Display	6digits LED (Character Height: 25mm)	5digits LCD (Character Height: 25mm)	
Key	6 Function keys		
Interface	RS-232C		
Operating Power	DC 12V Adaptor		
Operating Temp	-10 ~ 40℃		-5 ~ 35℃
Material	Stainless Steel		
Product Size (W x D x H)	200 x 53 x 130mm		
Product Weight	2kg		

BI-II | Weighing Indicator



Features

- General (manganese, alkaline) battery or rechargeable battery
- Waterproof design (IP65)
- 5 digits LCD Display (Backlight)
- Easy weight setting (Full Digital Calibration)

Option

- Rechargeable battery, fixing bracket

Specifications

Model	BI-II
Load cell excitation voltage	DC 5V
No. of Load cell connection	4ea (350Ω)
Zero Adjustment Range	0.05 mV ~ 5 mV
Load cell Input Range	0 mV/V ~ 2.0 mV/V
Input sensitivity	2μV/D
A/D Internal resolution	1/100,000
A/D external resolution	1/10,000
A/D conversion speed	Up to 10 times/sec
Display	6digits LCD (Character Height: 24mm)
Key	6 Function keys
Interface	RS-232C
Operating Power	DC 1.5V C Size battery 6ea / DC 1.2V AA Size Rechargeable battery 6ea / DC 12V 1.25A Adaptor
Operating Temp	-10 ~ 40 °C
Material	ABS
Product Size (W x D x H)	220 x 90 x 205mm
Product Weight	1.8kg

CI-150A

Weighing Controller



Features

- High speed ADC : 320 times/sec
- Load Cell (350Ω) Possible simultaneous connections of 8EA
- Support Modbus RTU Protocol
- Terminal block Port
- Multi point calibration
- Provide various interfaces
- Weight Back-Up (Saving of weight at sudden power failure)
- Watch-Dog circuitry (System restoration)

Option

- RS-485 (Modbus RTU)
- External 2 Input / 4 Output
- Analog output (V-out/I-out)
- RTC (Real Time Clock)

Specifications

Model		CI-150A
Load cell excitation voltage		DC5V
No. of Load cell connection		8ea (350Ω)
Zero Adjustment Range		0.05mV ~ 5mV
Load cell Input Range		-1.2mV/V ~ 3.2mV/V
Input sensitivity		0.36uV/D (OIML, KC), 0.2uV/D (Non-approval)
A/D Internal resolution		1/1,000,000
A/D external resolution		1/10,000 (OIML, KC), 1/30,000 (Non-approval, Max)
A/D conversion speed		Up to 320 times/sec
Display		6digits LED (Character Height: 13mm)
Key		5 Function keys
Interface	Basics	RS-232C
	Option	RS-422/485, Analog output (V-out/I-out)
External Input / Output		Input 2ea / output 4ea (Option)
Operating Power		DC 9~24V, 1.5A
Operating Temp		-10 ~ 40°C
Product Size (W x D x H)		110 x 100 x 66mm
Panel Cutting Size (W x H)		105 x 61mm
Product Weight		0.4kg

CI-170A

Weighing
Indicator

Features

- High speed ADC : 320 times/sec
- Compact Din Size body 96(W) x 48(H) mm
- Load Cell (350Ω) Possible simultaneous connections of 8EA
- Support Modbus RTU Protocol
- Terminal block Port
- Multi point calibration
- Provide various interfaces
- Weight Back-Up (Saving of weight at sudden power failure)
- Watch-Dog circuitry (System restoration)

Option

- RS-485 (Modbus RTU)
- Analog output (V-out/I-out)

Specifications

Model		CI-150A
Load cell excitation voltage		DC5V
No. of Load cell connection		8ea (350Ω)
Zero Adjustment Range		0.05mV ~ 5mV
Load cell Input Range		-1.2mV/V ~ 3.2mV/V
Input sensitivity		0.36uV/D (OIML, KC), 0.2uV/D (Non-approval)
A/D Internal resolution		1/1,000,000
A/D external resolution		1/10,000 (OIML, KC), 1/30,000 (Non-approval, Max)
A/D conversion speed		Up to 320 times/sec
Display		6digits LED (Character Height: 13mm)
Key		5 Function keys
Interface	Basics	RS-232C
	Option	RS-485, Analog output (V-out/I-out)
External Input / Output		Input 2ea / output 4ea (Option)
Operating Power		DC 9~24V, 1.5A
Operating Temp		-10 ~ 40°C
Product Size (W x D x H)		103 x 53 x 105mm
Panel Cutting Size (W x H)		94 x 46mm
Product Weight		0.4kg

CI-1500A/1560A

Weighing
Controller

CI-1500A



CI-1560A

Features

- Small Indicator
- Weight Back-Up (Saving of weight at sudden power failure)
- Watch-Dog circuitry (System restoration)
- External 2 Input / 4 Output (CI-1560A)
- Shielded against noise (RFI & EMI)

Option

- RS-232C
- RTC (Real Time Clock)

Specifications

Model	CI-1500A	CI-1560A
Load cell excitation voltage	DC 5V	
No. of Load cell connection	8ea(350Ω)	
Zero Adjustment Range	0.05mV ~ 30mV	
Load cell Input Range	0 mV/V ~ 4 mV/V	
Input sensitivity	1μV/D	
A/D Internal resolution	1/200,000	
A/D external resolution	1/10,000	
A/D conversion speed	Up to 10 times/sec	
Display	6digits LED (Character Height: 13mm)	
Key	5 Function keys	
Interface	RS-232C	
External Input / Output	-	Input 2ea / output 4ea
Operating Power	AC 220V, 50/60Hz	
Operating Temp	-10 ~ 40°C	
Product Size (W x D x H)	110 × 130 × 66mm	
Panel Cutting Size (W x H)	105 x 61mm	
Product Weight	0.7kg	

CI-600A Series

Weighing
Controller

Features

- High A/D conversion speed (200times/sec)
- High display resolution 1/10,000
- User-friendly interface (4.3" Full Graphic TFT LCD)
- Storing 100 items' information
- USB data backup
- Self-hardware test function
- Weight Back-Up (Saving of weight at sudden power failure)
- PC software to manage indicator
- Various communication interfaces

Option

- RS-422/RS-485 (Modbus RTU)
- Analog out (V-out/I-out)
- BCD In/Out
- External 2 Input / 6 Output
- External 6 Input / 8 Output
- Ethernet (Modbus TCP)

Specifications

Model		CI-601A	CI-605A	CI-607A
Load cell excitation voltage		DC 5V		
No. of Load cell connection		10ea (350Ω)		
Zero Adjustment Range		0 ~ 2mV/V		
Load cell Input Range		-2.0mV/V ~ 3.0 mV/V		
Input sensitivity		0.5 uV/D (OIML, KC), 0.3 uV/D (Non-approval)		
A/D Internal resolution		1 / 1,000,000		
A/D external resolution		1/10,000 (OIML, KC), 1/20,000 (Non-approval)		
A/D conversion speed		Up to 200 times/sec		
Display		4.3" TFT Color LCD		
Key		10 Numeric key, 9 Function keys		
Interface	Basics	RS-232C X 2 Port (COM1, COM2)		
	Option	RS-422/485 (Modbus RTU), Analog output (V-out/I-out), BCD In/Out, Ethernet (Modbus TCP)		
External Input / Output		-	Input 4ea / output 6ea (Option)	Input 6ea / output 8ea (Option)
Operating Power		AC100~240V 50/60Hz		
Operating Temp		-10 ~ 40°C		
Product Size (W x D x H)		192.9 X 190.2 X 98.4mm		
Panel Cutting Size (W x H)		186.5 x 93.5mm		
Product Weight		1.5kg		

CI-608A

Loss-In-Weight Screw Feeder



Features

- Loss-In-Weight Screw Feeder
- High A/D conversion speed (200times/sec)
- High display resolution 1/10,000
- User-friendly interface (4.3" Full Graphic TFT LCD)
- Storing 100 items' information
- USB data backup
- Self-hardware test function
- Weight Back-Up (Saving of weight at sudden power failure)
- PC software to manage indicator
- Various communication interfaces

Option

- RS-422/RS-485 (Modbus RTU)
- BCD In/Out / Ethernet (Modbus TCP)

Specifications

Model		CI-608A
Load cell excitation voltage		DC5V
No. of Load cell connection		10ea (350Ω)
Zero Adjustment Range		0 ~ 2mV/V
Load cell Input Range		-2.0mV/V ~ 3.2 mV/V
Input sensitivity		0.5 uV/D (OIML, KC), 0.3 uV/D (Non-approval)
A/D Internal resolution		1 / 2,000,000
A/D external resolution		1/10,000 (OIML, KC), 1/20,000 (Non-approval)
A/D conversion speed		Up to 200 times/sec
Display		4.3" TFT Color LCD
Key		10 Numeric key, 9 Function keys
Status display		Stable, Zero, Tare, Total/Net weight, Hold, Transmit, Receive, External input/output, Supply, Discharge
Interface	Basics	RS-232C X 2 Port (COM1, COM2), Analog output (V-out : 0~10V)
	Option	RS-422/485 (Modbus RTU), BCD In/Out, Ethernet (Modbus TCP)
External Input / Output		Input 8ea / output 8ea
Operating Power		AC100~240V 50/60Hz
Operating Temp		-10 ~ 40°C
Product Size (W x D x H)		192.9 X 190.2 X 98.4mm
Panel Cutting Size (W x H)		186.5 x 93.5mm
Product Weight		1.8kg

CI-400A Series

Weighing
Controller

CI-401A



CI-405A



CI-407A

Features

- High A/D conversion speed (200times/sec)
- High display resolution 1/10,000
- 6 wire load cell support
- Easy weight setting (Full Digital Calibration)
- High Visibility LED display (Character Height : 20mm)
- Built-in serial communication (Current Loop, RS-232C x 2ea)
- Easy cable routing with terminal block type connector

Option

- Analog out (V-out/I-out)
- BCD In/Out

Specifications

Model		CI-401A	CI-405A	CI-407A
Load cell excitation voltage		DC5V		
No. of Load cell connection		8ea (350Ω)		
Zero Adjustment Range		0 ~ 2 mV/V		
Load cell Input Range		-2.0mV/V ~ 3.0 mV/V		
Input sensitivity		0.3 uV/D(CE, KC), 0.2uV/D (Non-approval)		
A/D Internal resolution		1/1,000,000		
A/D external resolution		1/10,000 (CE, KC), 1/30,000 (Non-approval)		
A/D conversion speed		Up to 320 times/sec		
Display	Main	6digits LED (Character Height: 20mm)		
	Sub	-	7-segment 4digits LED x 2ea 6digits LED x 2ea (Character Height: 8mm)	6digits LED x 4ea (Character Height: 8mm)
Key		10 Numeric key, 3 Function keys		
Interface	Basics	RS-232C x 2 Port (COM1, COM2), RS-422/485(Modbus RTU), Current loop		
	Option	Analog output (V-out/I-out), BCD In/Out		
External Input / Output		Input 4ea	Input 4ea / output 6ea	
Operating Power		AC100~250V 50/60Hz		
Operating Temp		-10 ~ 40℃		
Product Size (W x D x H)		185 x 102 x 92mm		
Panel Cutting Size (W x H)		186.5 x 93.5mm		
Product Weight		1.2kg		

CI-400AL Series

Weighing
Controller

Features

- High A/D conversion speed (200times/sec)
- High display resolution 1/10,000
- 6 wire load cell support
- Easy weight setting (Full Digital Calibration)
- High Visibility LED display (Character Height : 38mm)
- Built-in serial communication (Current Loop, RS-232C x 2ea)
- Easy cable routing with terminal block type connector

Option

- RS-485(Modbus RTU protocol)
- Analog out (V-out/I-out) / BCD In/Out
- External I/O(4In/6Output for CI-401A)

Specifications

Model		CI-401AL	CI-405AL
Load cell excitation voltage		DC5V	
No. of Load cell connection		8ea (350Ω)	
Zero Adjustment Range		0 ~ 2 mV/V	
Load cell Input Range		-2.0mV/V ~ 3.0 mV/V	
Input sensitivity		0.3 uV/D(CE, KC), 0.2uV/D (Non-approval)	
A/D Internal resolution		1/1,000,000	
A/D external resolution		1/10,000 (CE, KC), 1/30,000 (Non-approval)	
A/D conversion speed		Up to 320 times/sec	
Display		5digits LED (Character Height:38mm)	
Key		5 function key(Zero, Tare, Net/Gross, Print, Set)	
Interface	Basics	RS-232C x 2Port(COM1, COM2), Current loop	
	Option	RS-422/485 (Modbus RTU), Analog Output(V-out/I-out), BCD In/Out	
External Input / Output		Input 4ea	Input 4ea/Output 6ea
Operating Power		AC100~250V 50/60Hz	
Operating Temp		-10 ~ 40°C	
Product Size (W x D x H)		193 x 127 x 100mm	
Panel Cutting Size (W x H)		186.5 x 93.5mm	
Product Weight		1.2kg	

CI-600D Series

Digital Loadcell
Weighing Controller



Features

- User-friendly interface (4.3" Full Graphic TFT LCD)
- Digital Loadcell Self test function
- Digital Loadcell Weighing Controller
- Storing 100 items' information
- USB data backup
- Weight Back-Up (Saving of weight at sudden power failure)
- PC software to manage indicator
- Various communication interfaces

Option

- RS-422/RS-485 (Modbus RTU)
- Analog out (V-out/I-out)
- Ethernet (Modbus TCP)
- External 4 Input / 6 Output
- External 6 Input / 8 Output
- BCD In/Out

Specifications

Model		CI-601D	CI-605D	CI-607D
Load cell excitation voltage		DC9V		
No. of Load cell connection		10ea		
Load cell Interface		RS-485 Half duplex		
Baud rate		9600~115,200bps		
Display		4.3TFT Color LCD		
Key		10 Numeric key, 9 Function keys		
Interface	Basics	RS-232C X 2Port (COM1, COM2)		
	Option	RS-422/485 (Modbus RTU), Analog output (I-out/V-out), BCD In/Out, Ethernet (Modbus TCP)		
External Input / Output (Option)		-	Input 4ea / output 6ea (Option)	Input 6ea / output 8ea (Option)
Operating Power		AC100~240V 50/60Hz		
Operating Temp		-10 ~ 40°C		
Product Size (W x D x H)		192.9 X 190.2 X 98.4mm		
Panel Cutting Size (W x H)		186.5 x 93.5mm		
Product Weight		1.8kg		

EXI-200AD

Explosion-proof Weighing Controller



Features

- Explosion-proof and waterproof structure
 - Intrinsic pressure, dust, hydrogen gas explosion proof structure
 - Waterproof (IP66)
 - ATEX & KCS Approval
- Front opening structure
- High A/D conversion speed (200times/sec)
- High display resolution 1/10,000
- Constant voltage touch method
- Provide various interfaces

Option

- Analog out (V-out/I-out)
- Ethernet (Modbus TCP)
- External 2 Input / 4 Output

Specifications

Model		EXI-200AD
Explosion Proof Class	Korean (KCS)	Ex d IIB+H2 T6 (Ex tD A21 T80~120°C IP66)
	European (ATEX)	II 2G Ex D IIB+H2 T6 Gb, II 2D Ex tb IIIC T80°C Db
Load cell excitation voltage		DC5V
No. of Load cell connection		8ea (350Ω)
Zero Adjustment Range		0 ~ 2mV/V
Load cell Input Range		-2.0mV/V ~ 3.2 mV/V
Input sensitivity		0.5 uV/D (Approval), 0.2 uV/D (Non-approval)
A/D Internal resolution		1/1,000,000
A/D external resolution		1/10,000
A/D conversion speed		Up to 320 times/sec
Display		6digits LED (Character Height: 8mm)
Key		10 Numeric key, 6 Function keys (Touch key)
Interface	Basics	RS-232C X 2 Port (COM1, COM2), RS-422/485 (Modbus RTU) x 1ea
	Option	Analog output (I-out/V-out), Ethernet (Modbus TCP)
External Input / Output		Input 2ea / output 4ea (Option)
Operating Power		DC10~24V or AC100~240V
Operating Temp		-20 ~ 40°C
Product Size (W x D x H)		257 X 218 X 152mm
Product Weight		15kg

EXI-600AD Series

Explosion-proof
Weighing Controller



Features

- Explosion-proof and waterproof structure
 - Intrinsic pressure, dust, hydrogen gas explosion proof structure
 - Waterproof (IP66)
 - ATEX & KCS Approval
- Front opening structure
- High A/D conversion speed (200times/sec)
- High display resolution 1/10,000
- User-friendly interface (4.3" Full Graphic TFT LCD)
- Constant voltage touch method
- Provide various interfaces

Option

- Analog out (V-out/I-out)
- Ethernet (Modbus TCP)
- BCD In/Out
- External 4 Input / 6 Output
- External 6 Input / 8 Output

Specifications

Model		EXI-601AD	EXI-605AD	EXI-607AD
Explosion Proof Class	Korean (KCS)	Ex d IIB+H2 T6 (Ex tD A21 T80~120°C IP66)		
	European (ATEX)	II 2G Ex D IIB+H2 T6 Gb, II 2D Ex tb IIIC T80°C Db		
Load cell excitation voltage		DC5V		
No. of Load cell connection		8ea (350Ω)		
Zero Adjustment Range		0 ~ 2mV/V		
Load cell Input Range		-2.0mV/V ~ 3.2 mV/V		
Input sensitivity		0.5 uV/D (Approval) , 0.3 uV/D (Non-approval)		
A/D Internal resolution		1/1,000,000		
A/D external resolution		1/10,000		
A/D conversion speed		Up to 200 times/sec		
Display		4.3" Graphic LCD		
Key		10 Numeric key, 5 Function keys (Touch key)		
Interface	Basics	RS-232C X Port (COM1, COM2), RS-422/485 (Modbus RTU) x 1ea		
	Option	Analog output (I-out/V-out), Ethernet (Modbus TCP), BCD In/Out		
External Input / Output		-	Input 2ea / output 4ea (Option)	Input 6ea / output 8ea (Option)
Operating Power		DC10~24V or AC100~240V		
Operating Temp		-20 ~ 40°C		
Product Size (W x D x H)		368.1 X 162.6 X 258mm		
Product Weight		18kg		

CD-3000 Series

Remote
Display

Features

- Secondary display
- High-resolution display (5 digits LED)
- Two status display: Stable lamps
- RS-232C, RS-422 & current loop auto setting

Specifications

Model	CD-3020	CD-3030	CD-3040
Display	6digits LED		
Character Height (W x H)	33x57mm (2.3inch)	43x76mm (3inch)	60x100 (4inch)
Operating Power	AC 85 ~ 264V		
Operating Temp	-10 ~ 40°C		
Product Size (W x D x H)	425 X 190 X 150mm	425 X 190 X 150mm	700 X 210 X 180mm
Product Weight	4.9kg	4.9kg	5.6kg



Features

- Compact size and handheld type
- Selectable communication (option of choosing between Zigbee or Bluetooth version)
- TFT LCD display with SUNCAP
- TWN ↔ USB communication to PC
- Connectable to mobile printer (choose between wired or Bluetooth type)
- Memory capacity of 100 items & 5,000 recorded weight data (including date, time and gross weight.)
- Item management and data back-up with TW-Works software

Option

- Wireless communication (select Zigbee or Bluetooth version)

Specifications

Model	TWN
Interface	Zigbee or Bluetooth
Communication rate (Baud rate)	9600
Communication distance	Max 50 ~ 100M
Display	320x240 TFT LCD
Battery Consumption Time	Approx. 24 hours
Charging Time	Approx. 5~6 hours
Interface	USB (TWN ↔ PC connection), RS-232C (Mobile printer connection)
Operating Power	TWN: DC 3.6V 4400mA rechargeable battery, adapter: DC 4.2V 1.2A
Operating Temp	-10 ~ +40°C
Product Size (W x D x H)	105 x 74 x 202mm
Product Weight	0.2kg

WTM-200/500

Weight
Transmitter



WTM-200



WTM-500

Features

- Slim and DIN rail of back panel and front panel with mounting
- 7-Segment 6digits LED display
(Character Height : 20mm, WTM-500/501)
- Easy setup by using 4keys (only for WTM-500/501)
- Ideal for PLC system requiring weighing data

Option

- External 2 Input / 4 Output
- Analog out

- High A/D conversion speed : 5 ~1,600 times/sec
- Terminal block Port
- Adjustable stepped increase of weight
- Multi point calibration
- Provide various interfaces

- Alibi Memory
- Ethernet

Specifications

Model		WTM-200	WTM-201	WTM-500	WTM-501
Load cell excitation voltage		DC 5V			
No. of Load cell connection		8ea (350Ω)			
Zero Adjustment Range		0~2 mV/V			
Load cell Input Range		-2.0mV/V ~ 3.2 mV/V			
Input sensitivity		0.36 μ V/D (OIML, KC, CE), 0.2 μ V/D (Non-approval)			
A/D Internal resolution		1/1,000,000			
A/D external resolution		1/10,000 (OIML, KC, CE), 1/30,000 (Non-approval)			
A/D conversion speed		Up to 1,600 times/sec			
Product installation type		DIN rail (back panel installable), front panel installable structure			
Display Type		-		6digits LED (Character Height: 8mm)	
Key		-		4ea	
Calibration	Through PC software	O	O	O	O
	Through key			O	O
Interface	RS-485	O	O	O	O
	Analog Output		O		O
External (Input : 2ea / Output: 4ea)			O		O
Operating Power		DC 10 ~ 24V			
Operating Temp		-10 ~ 40°C			
Product Size (W x D x H)		103 x 126 x 40mm			
Product Weight		0.15kg			

DOM-01&DMP- 4/8P

Digital
Module Box

DOM-01



DMP-4P



DMP-8P

Features

- Analog Digital Load Cell
- Compact design for installation
- Load cell status test possible
- RS-485 Interface Output

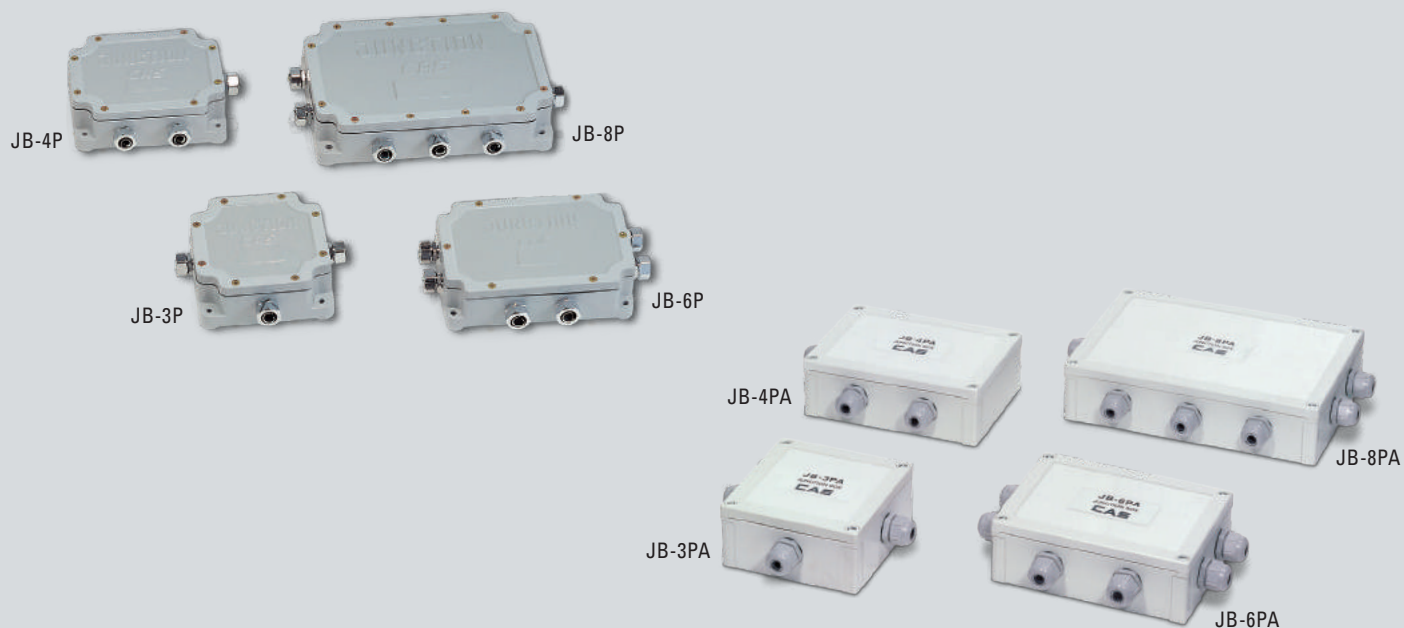
Application

- Various force and load monitoring
- Platform Scales
- Truck, Rail Scales
- Hoppers, Silos and Tank Scales

Specifications

Model	DOM-01	DMP-4P	DMP-8P
No. of Load cell connection	1ea	Up to 4ea (4P)	Up to 8ea (8P)
Product Weight	About 0.2kg	About 0.6kg	About 0.6kg
Product Size (W x D x H)	103x29x48mm	223x33x141.5mm	224x75x168mm
Description	Min	Type	Max
Bridge sensor power supply	DC 5V		
Bridge Input Impedance	43Ω	350Ω	5,000Ω
Sensitivity	-1.2~3.2mV/V		
Bridge Sensor Power Supply	4-wire		
Gain drift 2.5 ppm	2.5 ppm/°C		
Nonlinearity	0.0004 % of FSR		
Internal Resolution @ 10Hz Sampling	60,000 Counts		
Internal Resolution @ 80Hz Sampling	30,000 Counts		
Power supply voltage and current (350Ω bridge)	DC 9~24V, 25mA~30mA/module		
Communication speed	1,200~115,200 BPS		
Temperature range	Calibration temperature range	-10~40°C	
	Operating temperature range	-20~80°C	

JB-P / JB-PA Series

Junction
Box

Features

- Designing according to IP65
- 3, 4, 6, 8 Load cell merging
- Material: JB-P (Aluminum), JB-PA (ABS)

Application

- Tank Scales
- Truck Scales
- Hopper Scales

Specifications

Model	JB-3P/PA	JB-4P/PA	JB-6P/PA	JB-8P/PA
Load cell merging	3ea	4ea	6ea	8ea
Material	JB-P (Aluminum), JB-PA (ABS)			

EXJB-P

Explosion-proof
Junction Box



Features

- Ex d IIB T4 (IP65) Explosion proof structure
- Designing according to IP65
- 3, 4, 6 Load cell merging
- Material: Aluminum

Application

- Tank Scales
- Truck Scales
- Hopper Scales

Specifications

Model	EXJB-3P	EXJB-4P	EXJB-6P
load cell merging	3ea	4ea	6ea
Explosion Proof Class	Ex d IIB T4 IP65		
Material	Aluminum		

LCP-01

Load Cell
Protection Device



Features

- Protection of the load cell from thunderbolt or a variety of surges
- High power 2-stage surge protection
- Gas tube ceramic arrestor
- No power, low impedance
- Load cell 4 or 6 wire load cell applicable
- All strain gauge based sensors applicable

Specifications

Model	LCP-01
Stage 1 Clamping Voltage	75 volts (± 25%)
Stage 2 Clamping Voltage	33 volts
Peak Current	10 kA 8/20µs
Insulation resistance	≥10GΩ
Circuit Impeadance	≐ 0 Ω
Enclosure Material	Polycarbonate (UL94-HB)
Operating Temp	-40 ~ 80°C
Diemensions (WxDxH)	145 x 91.4 x 40mm
Weight	0.5kg

LCT PRO

Strain Amplifier



Features

- Available for All bridge sensors (1/4, 1/2, Full Bridge)
- Gain adjustment range from 1 to 11,000
- Bridge Shunt Calibration (Amp Calibration)
- built-in Low-pass filter for signal conditioning
- Wide frequency response (10KHz, -0.5dB)
- Selectable excitation voltage (DC 2 V, 5V, 10V)
- Excitation remote sensor installed
- Various output signal type
- Digital Output (RS-232C), Current Output, (0~40mA), Voltage Output (0~ ± 10V)

Option

- Current Output, Digital Output (RS-232C), Bridge Module

Specifications

LCT PRO	Voltage Output	Current Output (Option)	Digital Output (Option)	Bridge Module (Option)
Input	Full Bridge Transducer			- Strain gauge 1/4, 1/2, full(50Ω ~ 1KΩ) - Transducers Strain gauge Sensor Pressure sensor Resistive displacement sensor Dcdt displacement sensor Various displacement transducers
Output	0~±10V	0~40mA	0 ~ ±10V, RS232C	
Power	DC18~24V			
Gain	x1, x10, x100, x1000, x1 ~ x11 (Fine Volume) (Load Cell 0.1mV/V~100mV/V)			
Filter	Low-pass filter 1Hz,10Hz,100Hz,1KHz, 10KHz selectable			
Input Impedance	≤10 ¹⁰ Ω			
1010ΩExcitation voltage2V	2V,5V,10V selectable (Remote Sense)			
Zero Balance	±100% (R.O)			
Span Balance	±10% (R.O)			
Linearity	±0.01% (F.S)			
Accuracy	±0.01% (F.S)			
Operating Temp	-25 ~ 85°C, 85%			
Mea. Impedance	1.7 KΩ <	0 ~ 500Ω	3 ~ 7KΩ	
RS-232C	-		9600bps, Stream Mode 16bit, 8Hz sampling Rate	
Product Size (W x D x H)	64 x 123.5 x 110mm			
Panel Cutting Size(WxH)	60 x 104mm			
Product Weight	0.6kg			



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* Specifications are subject to change without notice improvement.

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