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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 1st 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 2nd 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)
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 NMIJ 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 | 2024 | Completion of Phase 1 of CAS Smart Factory Complex |
| 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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BUSINESS CATEGORY



Smart Solution

With the 4th Industrial Revolution, Change has begun in every industry for adopting smart factories to their facilities. In the smartification of the manufacturing process, accurate information collected by sensors, and record management using big data are the key to the smart factory. Based on high-quality sensor technology, CAS improves the productivity and quality of industrial facilities in the factory, and supports smartification of industrial facilities based on collecting real-time big data.



Sensor Solution

CAS is the only company in Korea with strain gauge and force sensor technology. CAS provides solutions optimized for industrial environments. Also, it is applied to industrial sites based on various force sensors (load cell, torque, etc.) and supports various sensor applications for smart factory such as explosion-proof measurement industry, precision metering industry, safety diagnosis of mechanical facilities, safety diagnosis in construction civil engineering, and quality control.



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.



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 of products and price.



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.



Measuring Instrument Solution

CAS Smart Research Instrument System is composed of proven research and laboratory equipment based on advanced technological capabilities and strict quality standards. It provides an optimized integrated solution for raw material formulation, process control, and overall quality management across a wide range of industrial applications—including research institutes and laboratories as well as weighing and measurement of electrical and electronic components.



Health & Living Solution

CAS Health & Living is a brand that has essential household items for family health care and home environment. CAS Health & Living offers a variety of solutions for your healthy life.



CAS CHEMICAL [TTR Solution]

CAS Chemical is the only coating specializing company that uses Korean materials and Korean Technology. We have developed ink and back coating liquid ourselves and our technology has been accepted as the best. We minimize damage to the printer head through the technology and decrease cost and effort on replacing the head. We are also doing our best to maintain the best quality through print quality, durability, preventing static, printing speed, printer compatibility, and label adaptation value.



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.



PC-Based Scale

CL8000 Series

Powerful PC-Based scale that can handle all the works in the retail area freely.

CL8000 PC-based scale is a powerful PC scale that can handle every work(Weighing, Labeling, Advertising) in the retail area freely. Thanks to its bright, vivid, and easy-to-read display, Customers can be easily focused on retail information and promotion multimedia.

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-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	SU-Type
Display	Size	Operator: 15" Customer: 9.7/15"	Operator: 10.1" Customer: 7"	Operator: 10.1" Customer: 10.1"	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. Capa.	3/6, 6/15, 15/30kg			
	Readability	1/2g, 2/5g, 5/10g			
	Resolution	1/3,000 (Dual)			
	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)mm		399 x 447 x 631	399 x 450 x 211	399 x 494 x 590	399 x 494 x 303
Product Weight		16.0 kg	15.8 kg	16.0 kg	11.8 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: Wi-Fi 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 / 7 (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, 50/60Hz		
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: Wi-Fi card / Platter with back rail

Model	CL5200J	
Max. Capacity	6/15 kg	15/30 kg
Readability	2/5 g	5/10 g
External Resolution	1/3,000 (dual interval)	
Display Digit	4 / 5 / 6 / 7 (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 (60x80 dots)		
Printing Speed	Max. 75mm/sec		
Label Size	Width: 40 ~ 60, Length: 30 ~ 290 mm		
Power	AC 100 ~ 240V, 50/60Hz		
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: Wi-Fi 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
- Dark gray ABS upper case diecasting aluminum platter
- PLU and programmable function keys
- Advertising function (images up to 9)

OPTION: Wi-Fi 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	



RETAIL WEIGHING

INDUSTRIAL WEIGHING

WEIGHING SOLUTION

LABORATORY WEIGHING

MEASURING INSTRUMENT

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 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		
Interface	RS-485		
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 PR2N Series

With its low-profile structure, PR2N Price Computing Scale is perfectly suited for open market environments such as grocery stores and butcher shops, ensuring both convenience and efficiency.

Also, It features a bright and clear LCD/LED display and 8 Direct PLUs, along with versatile communication interfaces and power options.

Bright & Clear Display

Low-profile Design

Fast & Accurate Weighing

8 Direct PLUs

Various Communication Interfaces

► PR2N-CU

LINE-UP



PR2N-CB

PR2N-CP

PR2N-CU

PR2N-EB

PR2N-EP

SPECIFICATION

Model	PR2N-C		PR2N-E	
Capacity	3/6, 6/15, 15/30kg			
Readability	1/2g, 2/5g, 5/10g			
Resolution	Dual 1/3,000			
Display	LCD display(Height : 16mm) x 3ea with backlight - 6/6/6 digits (Weight/Unit Price/Total Price)		LED display x 3ea (Height : Front-17.3mm Rear-15mm) - 6/6/6 digits (Weight/Unit Price/Total Price)	
Unit	kg, €(\$)/kg, €(\$)			
Key	Direct PLU : 8 keys Numeric : 10 keys, Function : 6 keys			
PLU memory	8ea			
Power	4V / 4Ah Rechargeable(Pb) battery, 6VDC Adaptor 1.5V D size Dry battery x 3ea(Optional), USB 5V(Optional) Compatible with both rechargeable and dry batteries			
Battery Life	Rechargeable battery: Approx.360 hrs Dry battery (BL off): Alkaline (Approx.540 hrs) Mn (Approx.270 hrs)		Rechargeable battery: Approx.100 hrs Dry battery: Alkaline (Approx.160 hrs) Mn (Approx.80 hrs)	
Interface	Optional : RS-232C, USB			
Platter Size(mm)	330(W) x 235 (D), SUS			
Product Size (W) x (D) x (H)	B type : 341 x 383 x 102 mm P/U type : 341 x 434 x 473 mm		B type : 341 x 383 x 102 mm P/U type : 341 x 434 x 473 mm	
Product Weight	B type : 3.24 kg, P/U type : 3.52 kg		B type : 3.24, P/U type : 3.52	
Option	RS-232C, USB (Compatible for simultaneous use with RS-232C interface), Dry battery			

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	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 1/2 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			



PR-II P LED

PR-II P LCD



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, LED)
- Rechargeable battery operation
- Expanded PLU keys

OPTION: Printer (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	6/6/6(Weight / Unit Price / Total Price)		
	6/6/6/6(Tare / Weight / Unit Price / Total Price only for CUT type)		
Display Type	LCD / LED / VFD		
Operating Temperature	-10 ~ +40°C		
Power	Rechargeable battery, DC adapter		
Battery Life	200hrs (LCD) / 45hrs (LED)		
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		



Rear Display



ER PLUS-CB



ER PLUS-CU



ER PLUS-CUT

ER PLUS (Large tray)

ER PLUS (Fish tray)

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 Battery, DC Adaptor		
Battery Life	200hrs (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-CB



▶ ER JR-CB

RETAIL WEIGHING

INDUSTRIAL WEIGHING

WEIGHING SOLUTION

LABORATORY WEIGHING

MEASURING INSTRUMENT

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



- IP66/67 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	Magellan8400	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

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 68.3 mm PDC-S: 370 x 312.3 x 68.3 mm PDC-D: 370 x 364 x 68.3 mm					
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)

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 1/3,200
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			



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/5A	

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)			

RETAIL WEIGHING

INDUSTRIAL WEIGHING

WEIGHING SOLUTION

LABORATORY WEIGHING

MEASURING INSTRUMENT

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.





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.



Simple Weighing Scale

SWN 

Large & bright display

Long battery operation

Fast & accurate weighing

Convenient to carry

Various Communication Interface (optional)

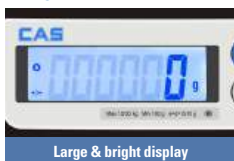


▶ SWN-CE



◀ SWN-SC

FEATURE



Large & bright display



Long battery operation



Fast operation and high accuracy



Convenient to carry

SPECIFICATION

Model	SWN-SC / SWN-CC (LCD)				SWN-SE / SWN-CE(LED)			
Capacity (kg)	1.5/3	3/6	6/15	15/30	1.5/3	3/6	6/15	15/30
Readability (g)	0.5/1	1/2	2/5	5/10	0.5/1	1/2	2/5	5/10
Resolution	Dual 1/3,000							
Display	6digit LCD+BL (Height : 29mm)				6digit LED (Height : 17.3mm)			
Symbol	Stable, Zero, Tare, Low battery, HI/LO/OK(SWN-CC/CE)							
Key	SWN-SC/SE : Power, Zero, Tare, Hold / SWN-CC/CE : Power, Zero, Tare, Mode							
Function	SWN-SC/SE : General Weighing, Hold, Auto power off / SWN-CC/CE : General Weighing, Counting/Check-weighing, Auto power off							
Power	1.5V D size dry battery x 4ea / Optional : 9VDC /300mA Adaptor				6VDC 3.2Ah Pb rechargeable battery, 12VDC / 1.25A Adaptor			
Battery life	Alkaline : 1,000hours / Mn : 500hours				70hours			
	When Continuously Using with single display in backlight off							
Communication	Optional : RS-232C, USB or BLE (Available simultaneously)							
Product size (mm)	256 (W) x 285 (D) x 123 (H)							
Platter size (mm)	239(W)x192(D)							
Product weight (kg)	2.7							
Option	Rear Display, RS-232C, USB or BLE, Stainless steel Tray, 9VDC/300mA Adaptor(SWN-SC/CC)							

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

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		



RETAIL WEIGHING

INDUSTRIAL WEIGHING

WEIGHING SOLUTION

LABORATORY WEIGHING

MEASURING INSTRUMENT

Basic Scale

PR2N-D/DU

- Bright & Clear Display
- Low profile design
- Fast & Accurate Weighing
- Simple & Easy Operation
- Easy to Install

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

Model	PRII-D		
Max. Capacity	3/6 kg	6/15 kg	15/30 kg
Readability	1/2 g	2/5 g	5/10 g
Resolution	Dual 1/3000		
Display	D type(LCD) : 6 digit LCD with backlight (Character Height : 29mm) D type(LED) : 7 Segment 6 digit LED (Character Height : 17.3mm) DU type(LED) : 7 Segment 6 digit LED x 2ea (Character Height Front : 17.3mm / Rear : 15mm)		
Symbols	STABLE, ZERO, TARE, g, kg, Low Battery, HI / OK / LO & PCS (STABLE, ZERO, TARE, g, kg, lb, oz, Low Battery, HI / OK / LO & PCS, LK, Power)		
Keys	ZERO/ TARE/ 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	4V / 4Ah Rechargeable(Pb) battery, 6 VDC Adapter, 1.5 V D size dry battery x 3ea(Optional), USB 5V(Optional)		
Platter Size	330 (W) x 235 (D) mm		
Product Size	D TYPE : 341 (W) x 383 (D) x 102 (H) DU TYPE : 341 (W) x 435 (D) x 474 (H)		



► PR2N-EDU



► PR2N-CD



► PR2N-ED

Basic Scale

PRII-D



- 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	3/6 kg	6/15 kg	15/30 kg
Readability	1/2 g	2/5 g	5/10 g
Resolution	1/3,000 g (Intervalo Dual)		
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							



Damp-proof Scale SWII-WS



- Suitable for damp environment
- Fast operation and High accuracy
- Large & bright display
- Convenient to carry
- Stainless steel tray
- Auto power and standby mode for economic usage



Rear display (Optional)



FEATURE



Suitable for damp environment



Stainless steel upper housing and tray



Fast operation and High accuracy



Large bright display

SPECIFICATION

Model	SWII-CWS (LCD)				SWII-EWS (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 : 29 mm, with backlight)				6 digit LED (Height : 17.3 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) - 6V 3.3A Rechargeable Battery (Pb, Factory Option) - 9VDC/1A Adaptor (Optional)				- 6V 3.3A Rechargeable battery(Pb) - 9VDC/1A Adaptor			
Battery Operating Time (for Single display)	- Manganese battery: ~400 hours - Alkaline battery: ~800 hours - Rechargeable battery: ~220 hours				- Approx. 80hours			
Operation Temperature	-10 ~ 40 °C							
Ingress Protection	Designed according to IP68							
Platter Size	237 (W) x 192 (D) (SUS) mm							
Product Size	257 (W) x 298 (D) x 117 (H) mm							
Product Weight	Approx. 2.8 kg							
Options	- (For All) Rear Display, Waterproof Power Connector - (For SWII-CWS(LCD)) DC 9V/1A Adaptor, Rechargeable Battery (Pb, Factory Option)							



► LED



► LCD

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

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 (H/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							



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	LCD 5 digit (height 35mm)			LED 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 °C					
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		



Product Movie

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	1/3000	
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	3 kg	6 kg	15 kg	30 kg
Readability(e=d)	0.1/0.05 g	0.2/0.1 g	0.5/0.2 g	1/0.5 g
External Resolution	30,000	30,000	30,000	30,000
Internal Resolution	60,000	60,000	75,000	60,000
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	306(W) x 222(D) mm			
Product Size	330(W) x 346(D) x 107(H) 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	3 kg	6 kg	15 kg	30 kg
Readability	0.1 g	0.2 g	0.5 g	1 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)	400 x 500 mm			
Product Size (W) x (D) x (H)	500 x 720 x 760 mm			
Product Weight	3.5 kg			



Counting 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	25 kg
Readability	0.5 g	1 g	2 g	5 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	1/5,000		
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			



Customized (Logo & cover design)

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

android (Only Available on Android)

Bench Scale

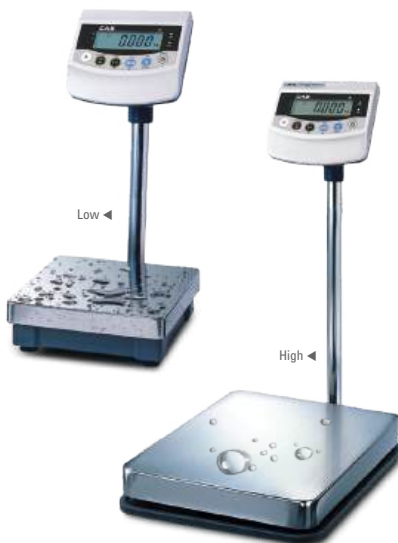
BW-1N



- 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 ka			14.7 ka		14 ka	



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, 100 g	100, 200 g
Resolution	1/1,500 ~ 1/3,000	
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



DBI



SPS

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 / Indicator

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	500 kg	0.2 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: Use12t check plate			



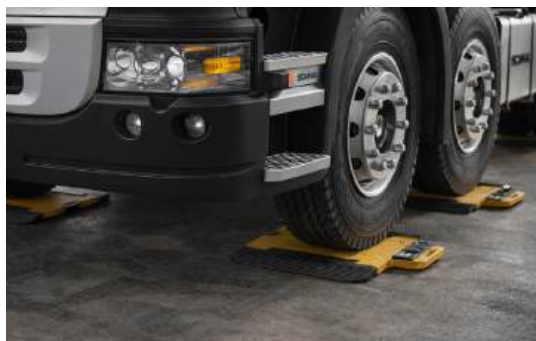
Vehicle Weighing Scale

RW-PLZ



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

Model	RW-PLZ		
Max. Capacity	10 ton	15 ton	20 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	ZIGBEE		
Communication Range	40m		
A/D converting Speed	Normal 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: $\pm 3\%$ 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	6 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-10L
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℃			



RW-S



► RW-L

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(Non-Certi) / 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-III PLUS



- 1.5 inch high visibility LED display
- Rugged enclosure suitable for rough environment
- Watertight structure, protect against moisture and dust
- High accuracy up to $\pm 0.03\%$ 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 / T/WN (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	0.5kg	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 845 mm	280 x 360 x 886 mm	280 x 360 x 990 mm	280 x 440 x 1200 mm	280 x 440 x 1520 mm
Product Weight	28kg	28kg	28kg	31kg	44kg	53kg	76kg	220kg	390kg



Crane Scale

CASTON-I



- 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

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 communication 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

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



Product Movie



► TWN

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	CPS ^{PLUS-1}	CPS ^{PLUS-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 x 1140 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				



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	



Drum Scale

EXP-CDS PLUS

- Explosion-proof type
- 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

Model	EXP-CDS PLUS
Max.Capacity	300 kg
Readability	0.1 kg
Power	DC12V
Measuring Range	Ø590 x 890 mm
Indicator	EXI-200AD 7 segment 6digits LED



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



Food waste pickup scale

CBS PLUS



Product Movie

- Picking up and weighing food waste at once
- Rugged contruction
- 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



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



CLIS SERIES

CLIS, short for CAS Logistics Inspection System, is a comprehensive solution designed to optimize logistics and inventory management in real time. by integrating CAS's various sensors and PC-based weighing and measuring equipment (Weighing+Measuring+PC) with dedicated control programs. CAS provides an accurate logistics management system as a solution to build trust and mutual benefit between operators, managers, and customers.



- Efficient utilization of loading space through volume management
- Establishment of a work management and evidence documentation system through video monitoring
- Error prevention system to avoid discrepancies in quantity during logistics inbound/outbound operations

Easy management and utilization through database of measurement

[Inbound]
Inbound of goods

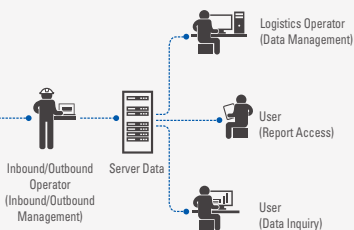
Image check and storage of inspected products

Compatible with enterprise ERP integration



Barcode Scan
+
Check the Weight
+
Image Capture (CLIS-500)
Video Capture (CLIS-700)
+
Volume Check

Product Loading
[Outbound]



Model	200	CLIS-250	CLIS-500	CLIS-550	CLIS-700	CLIS-750
Applicable Object	Small Box (Max.20cm)	Small Box (Max.45cm)	Middle/ Small Box (Max.50cm)	Middle/ Small Box (Max.60cm)	Middle Box (Max.75cm)	Large Volume (Max.200cm)
Volume Scanning	X	O	O	O	O	O
Weight Measurement	O (Roller/Platform)	O (Platform)	O (Platform)	O (Platform)	O (Belt)	Can be select Optional (Platform)
Specification	* Customized design available for user environments / Tailored UI integration with client systems Available options: Scanner, Printer, Panel PC, Video and Image Storage Functions					
Additional Features	Additional Information Input (e.g., Cargo Number) Skid Height Setting (Height excluded from measurement) Measurement Data Inquiry and Excel File Storage Integration Development with Upper-Level Computer Operating Program					

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	30/60 kg
Readability	10/20 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 / Customizable
Interface	USB, RS-232C, Ethernet



Product Movie

Logistics Inspection System

CLIS-250

- 3D Volume Measurement Using Ultrasonic Sensors
- Accurate Weight Measurement Using a High-Precision Scale
- All-in-One Display, Expandable Display

Model	CLIS-250
Sensor	Ultrasonic Sensor
Measurement Type	Static Measurement
Display	Front / Rear LED Display
Minimum Measuring Range	100 (W) x 100 (D) x 70 (H) mm
Maximum Measuring Range	450 (W) x 390 (D) x 450 (H) mm
Measurement Error	±10 mm
Product Dimensions (mm)	765 (W) x 540 (D) x 678 (H) / Custom-made
Maximum Capacity	15 kg / 30 kg
Readability	5 g / 10 g
Platform Size	380 (W) x 280 (D)mm
Power Supply	AC 220V (DC 12V Adapter)
Interface	USB, RS-232C, Ethernet



Logistics Inspection System

CLIS-500

- Volume and Weighing Data, Barcode Reading Information Management System
- Unstructured Volume Measurement Using Camera Sensor

Model Name	CLIS-500
Capacity	30 kg / 60 kg
Readability	10 g / 20 g
Platform Size	842(W) x 912(D) x 2,070(H) mm
Power	AC220V
Interface	USB, RS-232C, Ethernet
Sensor	Structured Light Camera Sensor
Measurement Type	Static Measurement
Display	LCD Touchscreen
Minimum Measurement Range	100(W) x 100(D) x 100(H) mm
Maximum Measurement Range	500(W) x 500(D) x 500(H) mm
Error Range	±10mm(Structured), ±20mm(Unstructured – Outermost)
Product Size	700(W) x 700(D) x 2,000(H) mm / Customized



Logistics Inspection System

CLIS-550

- Unstructured Volume Measurement Using Upper Mobile Laser Sensor
- Logistics System Communication Utilizing Various Interfaces
- PC Software Support

Model Name	CLIS-550
Capacity	30 kg / 60 kg
Readability	10 g / 20 g
Platform Size	Can be customized equipment size can be negotiated (Changes possible for custom-made production - cargo platform/ working height specification available)
Power	AC220V
Interface	USB, RS-232C, Ethernet
Sensor	Laser Sensor
Measurement Type	Dynamic Measurement
Display	LCD Touchscreen
Minimum Measurement Range	100(W) x 100(D) x 100(H) mm
Maximum Measurement Range	500(W) x 500(D) x 500(H) mm
Error Range	±5mm(Structured), ±10mm(Unstructured – Outermost)
Measurement Speed	Within 3 Seconds
Product Size	700(W) x 1,000(D) x 2,000(H) mm / Customized



Logistics Inspection System

CLIS-700

- Logistics Automation System Built with Conveyor Drive Method
- Stable Tunnel-Type Structure Enabling Accurate Product Specification Verification
- Integrated with Checker for Stable Weighing Operations
- External Lamp and Buzzer Indications Based on Measurement Results for Easy Detection of Work Issues
- Database Integration of Measurement Results for Easy Management and Data Utilization



CLIS Private Program

Model Name	CLIS-700
Capacity	30 kg / 60 kg
Readability	10 g / 20 g
Platform Size	850(W) x 750(D)
Power	AC 220V 60Hz (Can be Changed)
Interface	USB, RS-232C, Ethernet
Sensor	Laser Sensor
Measurement Type	Dynamic Measurement
Display	LCD Touchscreen
Minimum Measurement Range	150(W) x 50(D) x 50(H) mm
Maximum Measurement Range	750(W) x 600(D) x 600(H) mm
Error Range	±5mm(Structured), ±10mm(Unstructured – Outermost)
Measurement Speed	Within 3 Seconds
Product Size	880(W) x 1,055(D) x 2,180(H) mm / Customized

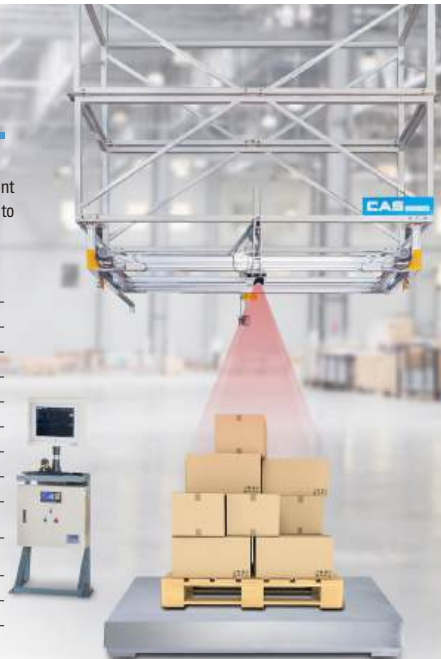


Logistics Inspection System

CLIS-750

- Weight Unit Conversion and Substitution with User-Defined Values
- Implementation of Actual Cargo Volume (Water Volume) Measurement
- Customizable Design with Upper/Lower Separation Structure According to User Environment
- Connection with Platform Scale, Camera, Printer, etc. (Optional)
- Simultaneous Measurement of Two Cargo Items (Optional)

Model Name	CLIS-750
Capacity	3,000 kg / 5,000 kg
Readability	1 kg / 1 kg
Platform Size	2,000(W) x 2,000(D) x 255(H)
Power	AC 220V
Sensor	Laser Sensor
Measurement Type	Dynamic Measurement
Display	LCD Touchscreen
Minimum Measurement Range	300(W) x 300(D) x 300(H) mm
Maximum Measurement Range	2,000(W) x 2,000(D) x 2,000(H) mm
Error Range	±20 mm(Based on the Structured Box)
Measurement Speed	Within 12 Seconds
Product Size	3,600(W) x 3,300(D) x 3,400(H) mm (Fixed Upper Installation, Customized According to Usage Environment)
Operating Equipment	LMS511 Pro 2EA, Mechanical Frame, Motor, Panel PC
Support O/S	Over Window7
Communication	TCP-IP



Checkweigher

CKK700

- 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	CKK700-WB006		CKK700-WB012		CKK700-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. Throughout (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
	Height	3~120		5~180		3~250	
Conveyor (mm)	Feed	150W×550L	150W×450L	150W×450L	220W×350L	220×350	300×450
	Weighing	100W×250L	100W×350L	150W×350L	220W×450L	220×450	300×550
	Reject	150W×450L	150W×450L	150W×450L/550L	220W×450L/550L	220×550	300×550
Rejector	Flip bar, Drop belt, Pusher bar, Air jet, Air pusher				Flip bar, Drop belt, Pusher bar, Air pusher		

Model code	CKK700-WB060		CKK700-WC150		CKK700-WC300		CKK700-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. Throughout (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	200~1,200
	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	1,300L
	Reject	300W×550L/650L	380W×550L/650L	700L	900L	900L	1,100L	1,100L
Rejector	Flip bar, Drop belt, Pusher bar, Air pusher			Pusher roller, Air pusher				

Checkweigher

CKK-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



Checkweigher

CKK-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					

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

Rejector

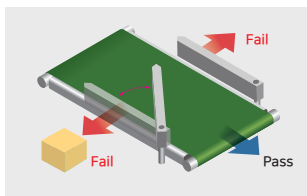
Standard Specification

- Gate drive system : Pneumatic Drive
- Body Material : All Stainless Steel
- Air Supply : 4~5 kg/cm², 12 L/min
- Ingress Protection : IP65(Optional IP67)
- Pass Height : 700, 810, 920 ±60 mm
- Power : 200~220VAC ±10%, 1ø, 50~60Hz



Flip Bar Rejector [FB3]

- 3 way sort
- For Carton

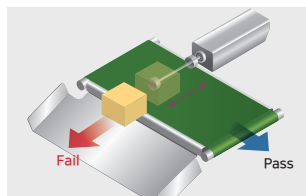


Model Code		R-WB015		R-WB060	
		-R15 -FB3	-R15 -FB3	-R26 -FB3	-R37 -FB3
Weight Capacity		1.5 kg		6.0 kg	
No. of Reject Way		3 Ways			
Max. Throughput(*1) [ea./min.]		180	160	140	120
Product Dimension [mm] (*1)	Width	150	220	220	300
	Length	250	350	350	450
	Height	150	200	200	300
Conveyor Dimension	Width [BW]	150	220	220	300
	Length [RL]	550	650	650	750
Conveyor Belt		8~110 m/min.		6~80 m/min.	

Max. Throughput depends on size and condition of products.

Air Pusher Rejector [AP2]

- Light Blow
- For High-speed checkweighing and Lightweight product

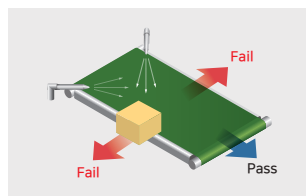


Model Code		R-WB015		R-WB060		
		-R15 -AP2	-R25 -AP2	-R25 -AP2	-R35 -AP2	-R46 -AP2
Weight Capacity		1.5 kg		6.0 kg		
No. of Reject Way		2 Ways				
Max. Throughput*1) [ea./min.]		120	100	100	80	60
Product Dimension [mm] (*1)	Width	150	220	220	300	380
	Length	250	350	350	450	550
	Height	150	200	200	300	400
Conveyor Dimension	Width [BW]	150	220	220	300	380
	Length [RL]	550	550	550	550	650
Conveyor Belt		8~110 m/min.		6~80 m/min.		

Max. Throughput depends on size and condition of products.

Air Jet Rejector [AJ3]

- Compressed air blow
- For High-speed checkweighing and Lightweight product

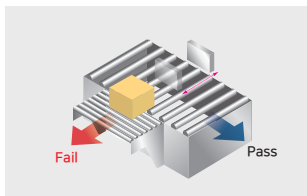


Model Code	R-WB015	
	-R15-AJ3	-R25-AJ3
Weight Capacity	300 g	
No. of Reject Way	3 Ways	
Max. Throughput(*1) [ea./min.]	360	300
Product Dimension [mm] (*1)	Width	150
	Length	250
	Height	100
Conveyor Dimension	Width [BW]	150
	Length [RL]	550
Conveyor Belt Speed	8~110 m/min.	

Max. Throughput depends on size and condition of products.

Pusher Roller Rejector [PR2]

- For Heavyweight product

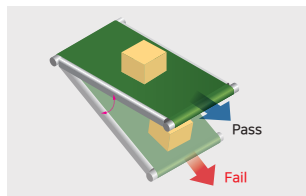


Model Code		R-WC150		R-WC300	
		-R407 -PR2	-R409 -PR2	-R509 -PR2	-R511 -PR2
Weight Capacity		15 kg		30 kg	
No. of Reject Way		2 Ways			
Max. Throughput(*1) [ea./min.]		60	45	45	35
Product Dimension [mm] (*1)	Width	400	400	500	500
	Length	600	800	800	1000
	Height	400	400	500	500
Conveyor Dimension	Width [BW]	400	400	500	500
	Length [RL]	700	900	900	1100
Conveyor Belt		21~53 m/min.			

Max. Throughput depends on size and condition of products.

Drop Belt Rejector [DB21]

- For Thin product

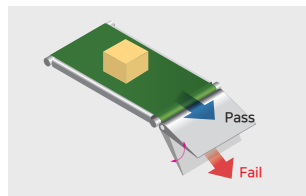


Model Code		R-WB015		R-WB060		
		-R15 -DB21	-R25 -DB21	-R25 -DB21	-R35 -DB21	-R46 -DB21
Weight Capacity		1.5 kg		6.0 kg		
No. of Reject Way		2 Ways				
Max. Throughput*1) [ea./min.]		140	120	120	100	80
Product Dimension [mm] (*1)	Width	150	120	120	100	80
	Length	250	350	350	450	550
	Height	100	100	100	100	100
Conveyor Dimension	Width [BW]	150	220	220	300	380
	Length [RL]	550	550	550	550	650
Conveyor Belt		8~110 m/min.			6~80 m/min.	

Max. Throughput depends on size and condition of products.

Drop Flap Rejector [DF2]

- For Carton & Raw material



Model Code	R-WB060		
	-R20 -DF21	-R30 -DF21	-R40 -DF21
Weight Capacity	3 kg		
No. of Reject Way	2 Ways		
Max. Throughput(*1) [ea./min.]	120	100	90
Product Dimension [mm] (*1)	Width	220	300
	Length	350	450
	Height	70	70
Conveyor Dimension	Width [BW]	220	300
	Length [RL]	-	-
Conveyor Belt Speed	-		

Max. Throughput depends on size and condition of products.

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 $\pm 10\%$, 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			



Semi-auto type ◀



▶ Auto type

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
- Nichrome heating element supplied from Europe
- Teflon coating from DUPONT which has increased strength and wear resistance
- Electric pedal



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

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

Tray Sealer CTP

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



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	

Vacuum Machine CVP

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



Table top vacuum packaging machine

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		

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 In, BCD out, Ethernet, WiFi	
External I/O		-	Input 4/Output 6
Power		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)
- 7 Function keys
- CE, OIML approved

OPTION: RS-485 / USB / 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



RETAIL WEIGHING

INDUSTRIAL WEIGHING

WEIGHING SOLUTION

LABORATORY WEIGHING

MEASURING INSTRUMENT

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



► WTM-200/201



► WTM-500/501

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)	103×126×40 mm			
Options	External 2In/4Output, Analog output, Alibi memory, Ethernet			



Load Cell

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
Creep for 30 min. (% R.O)	≤0.03	≤0.03	≤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	-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	≤0.02	≤0.03	≤0.05
Creep for 30 min. (% R.O)	≤0.017	≤0.03	≤0.017	≤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	-
Combined Error (% R.O)	≤0.015	≤0.025	≤0.025	≤0.03
Creep for 30 min. (% R.O)	≤0.015	≤0.017	≤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	-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
	Maximum (V)		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	
	Maximum (V)		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
Creep for 30 min. (% R.O)	≤0.03	≤0.017	≤0.03
Excitation	Recommended (V)		10
	Maximum (V)		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, 50, 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
Creep for 30 min. (% R.O)	≤0.03	≤0.017	≤0.03	≤0.03	≤0.05
Excitation	Recommended (V)		10	10	
	Maximum (V)		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
	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	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
	Maximum (V)		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 (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
	Maximum (V)		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 / 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
	Maximum (V)		15	15
Compensated Temperature Range (°C)	-10~+40		-10~+40	-10~+40
Operating Temperature Range (°C)	-30~+80		-20~+70	-20~+70
Material & Plate	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
	Maximum (V)	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
	Maximum (V)	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	B	A	B	-	-
Combined Error (% R.O)	≤0.02	≤0.05	≤0.02	≤0.05	≤0.15	≤0.15
Creep for 30 min. (% R.O)	≤0.03	≤0.03	≤0.03	≤0.03	≤0.03	≤0.05
Excitation	10		10		10	10
	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
Creep for 30 min. (% R.O)	≤0.017	≤0.03	≤0.017	≤0.03	≤0.017	≤0.03	≤0.017
Excitation	10		10		10		10
	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**



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 T185°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
	Maximum (V)	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
	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	-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
	Maximum (V)	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
	Maximum (V)	15
Compensated Temperature Range (°C)	-	-
Operating Temperature Range (°C)	-	-
Material & Plate	Aluminum	Aluminum

Printer



DEP-50

DLP-50

Model	CLK-B10/B20	CLK-T41	DEP/DLP-50
Print Method	Direct thermal / Thermal Transfer	Direct thermal	Direct thermal
Print Speed	102 or 152 mm/sec	140 mm/sec	50 mm/sec
Resolution	203dpi	203dpi	203dpi
Print Width	104 mm	56 mm	48 mm
Paper Width	18-118 mm	59 mm	-
Roll Diameter	127/200 mm	60 mm	-
Dimension (W x D x H)	215 x 287 x 231 mm	119 x 181 x 106 mm	106 x 180 x 88 mm
Weight	3.6 kg	1.7 kg	0.4 kg
Power	AC100-240V / DC24V 2.5A / 24V 2.92A	AC100-240V / DC24V 2.5A	DC 12V
Memory	Flash 2.5/ 5MB/ SDRAM 8MB	Flash 2MB	-
Interface	Serial, Parallel, USB	-	Serial



Model	CP-7020	CP-7100	CP-7200
Print Method	Dot / Thermal	Dot / Thermal	Dot / Thermal
Print Speed	46CPS	25 mm/sec	25 mm/sec
Resolution	-	-	-
Print Width	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)	175 x 165 x 105 mm	122 x 79 x 135 mm	110 x 167 x 87 mm
Weight	2 kg	0.56 kg	0.53 kg
Power	AC100-240V	DC12V 1.6A / DC5V 2.5A	DC12V 1.6A / DC5V 2.5A
Memory	SDRM 8MB	-	-
Interface	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)	

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	ERPLUS, 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/CUW, XB, TW-100, X320, CCK5500, MW-IIN, 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 function 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





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

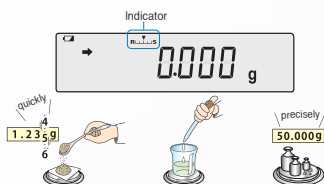
Power saving function

Formulation mode Password lock

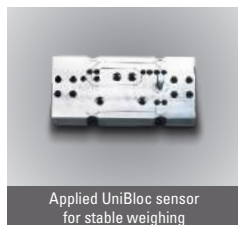
CAXY : Span calibration is possible by using internal weight (CAXY only)

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



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					

RETAIL WEIGHING

INDUSTRIAL WEIGHING

WEIGHING SOLUTION

LABORATORY WEIGHING

MEASURING INSTRUMENT

Analytical Balance

CAU

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

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 series



- 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 PLUS

High weighing performance with 1/30,000 resolution

Supports various weighing modes

Built-in counting function

Percent mode

Auto power-off and auto backlight ON/OFF

Battery status indicator

Printing function for weight value, date, and time

Compatible with external ticket and label printers

OPTION

- Batteries [AA size × 6 (1.5V)]
- Ticket Printer DEP-50
- Label Printer DLP-50

Supports weighing modes in grams (g) and carats (ct), making it suitable for use in various environments.



▲ Gram(g) weighing mode



▲ Carat(ct) weighing mode



1/30,000 resolution



Counting function



Percent mode



Compatible with an external printer

Model	MWII PLUS		
Max. Capacity	300 g	600 g	3000 g
Readability	0.01 g	0.02 g	0.1 g
External Resolution	1/30,000		
Display	LCD with backlight		
Display Digit	6 digits (Weight)		
Operating Temperature	5 ~ 35°C		
Power	DC adapter / 6 × AA batteries		
Operating Time	Approx. 31 hours (with alkaline batteries)		
Platter Size (W) x (D)	Ø130 mm	162 x 145 mm	
Product Size (W) x (D) x (H)	190 x 270 x 83 mm		
Product Weight	1.16 kg	1.21 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	300 g	1200 g	3000 g
Readability	0.005 g	0.01 g	0.02 g	0.05 g	0.1 g	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℃								
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
e value	0.05 g	0.1 g	0.2 g	0.5 g	1 g
d value	0.005 g	0.01 g	0.02 g	0.05 g	0.1 g
External Resolution	6000 g	6000 g	7500 g	6000 g	6000 g
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

RETAIL WEIGHING

INDUSTRIAL WEIGHING

WEIGHING SOLUTION

LABORATORY WEIGHING

MEASURING INSTRUMENT

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
e value	0.01 g	0.02 g	0.05 g	0.1 g	0.2 g
d value	0.01 g	0.02 g	0.05 g	0.1 g	0.2 g
Resolution	1/30,000				
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)	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 66 x 90 mm
Product Weight	0.25 kg





Individual Weights

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

- ◆ Sheet weight
- ☆ Marked sheet weight
- Cylindrical weight with knob
- ★ Marked cylindrical weight with knob

Nominal value	Shape
1mg	◆
2mg	◆ ◆
5mg	◆
10mg	◆
20mg	◆ ◆
50mg	◆
100mg	◆
200mg	◆ ☆
500mg	◆
1g	■
2g	■ ■
5g	■
10g	■
20g	■ ■
50g	■
100g	■
200g	■ ■
500g	■
1kg	■
2kg	■ ■
5kg	■
10kg	■
20kg	■



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



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



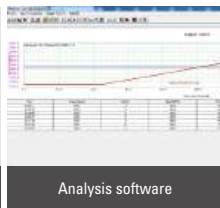
FEATURE



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

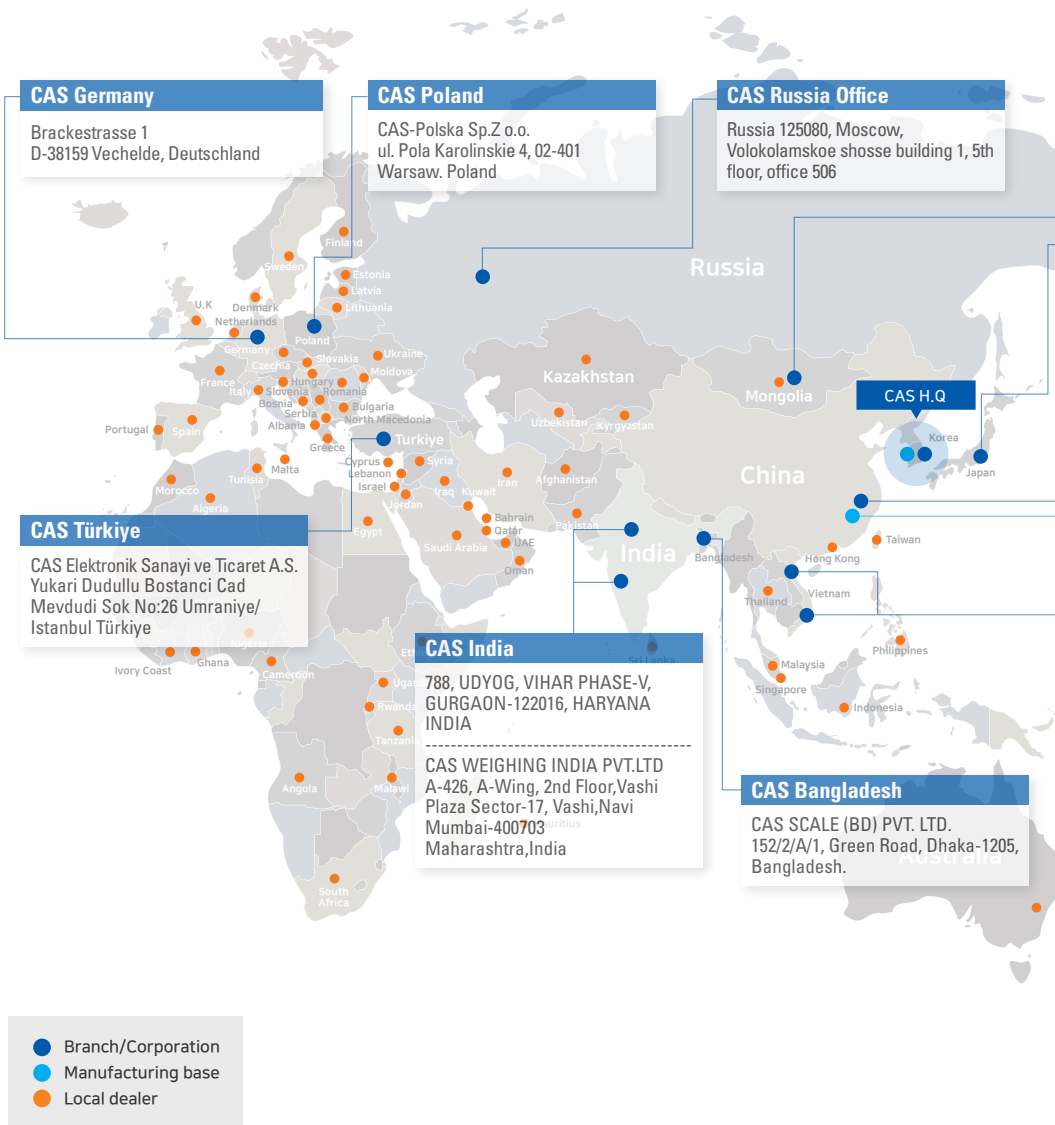


Benchtop pH Meter

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.





CAS Headquarters



Republic of Korea (Seoul)



China (Jiashan)



China (Shanghai)



U.S



Germany



Poland



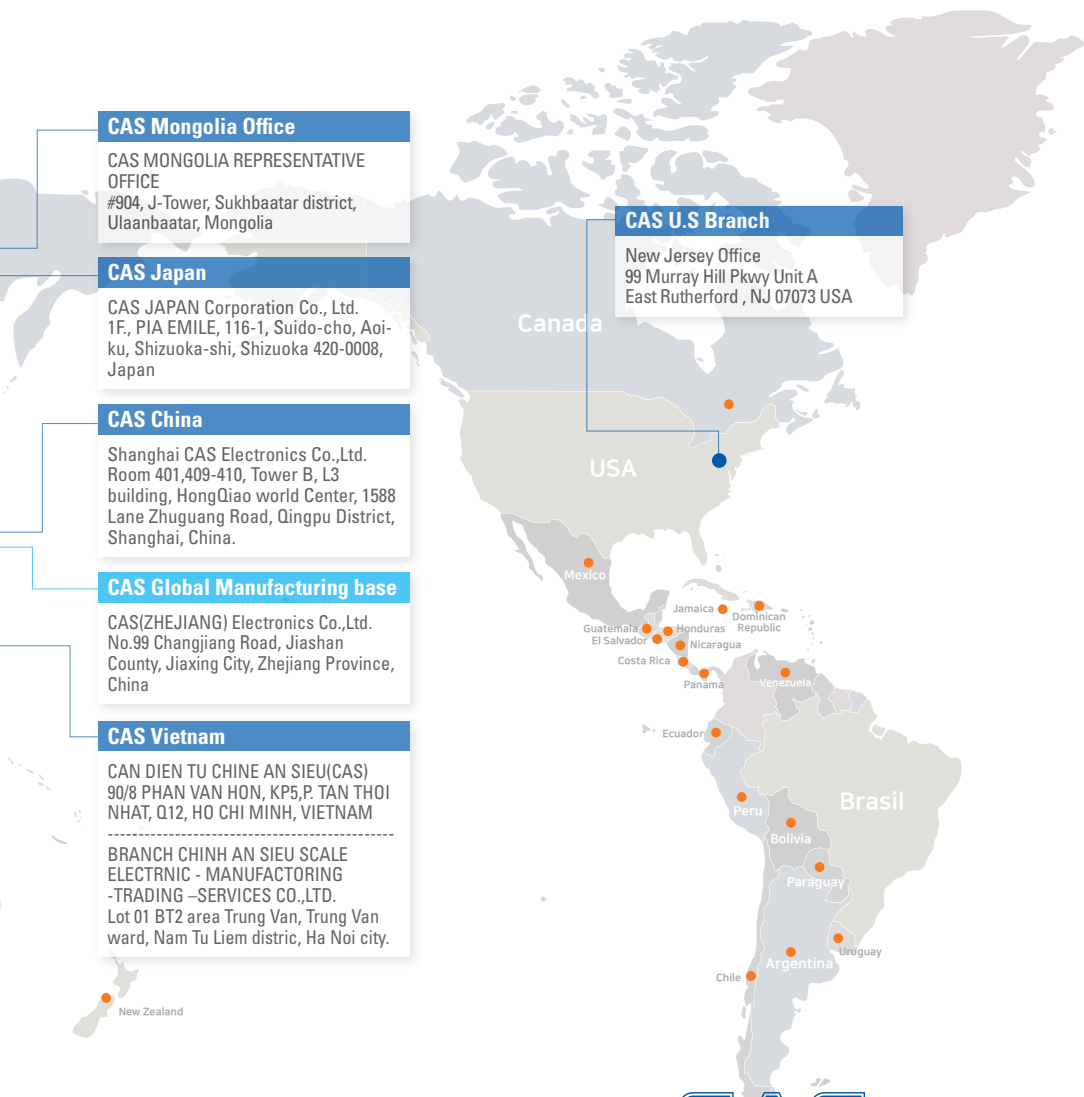
Türkiye



India (Gurgaon)



India (Mumbai)



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Specifications are subject to change without notice for improvement.

C_61706202