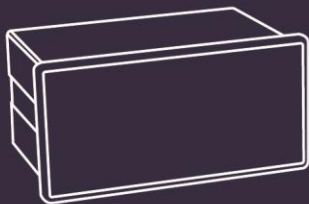


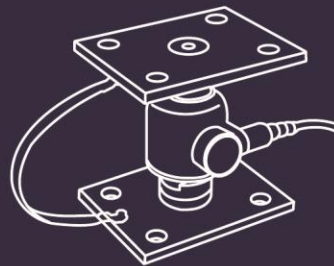
# PRODUCT CATALOG

# SEWHA

# CNM 2024



**INDICATOR**



**LOADCELL**



**CONTROLLER**

# Introduction



SEWHA CNM CO., LTD.



**SEWHACNM**  
WEIGHING SOLUTION

Since established in 2000, SEWHA CNM is the foregoing leader in weighing and automatic control system business in the weighing industry. With decades of experienced staffs, outstanding technology and services, we provide the best solution to users.

SEWHA CNM's Controller is applicable to various customer's factory condition, such as Hopper, Packer, Filler, Flecon bag, Conveyor and Auto Checker Scale with optimum performance, and three functions of controller, Operators and Displayers are integrated to maximize the user's convenience.

SEWHA CNM has been focusing all R&D powers on developing Hi-Tech-nology balanced between hardware and software. Namely, hardware, high qualified digital weighing indicator featured with various external interfaces and software, easily usable to operators.

2024

- Developed printer built in indicator SI400P, SI410P
- Developed LPR system SA600LPR-F/G
- Developed warehouse management program
- Developed touch PC type truck scale controller
- Acquired CE and KC certification of controller SI400P

2023

- Developed printer built in indicator SI400P, SI410P
- Developed LPR system SA600LPR-F/G
- Developed warehouse management program
- Developed touch PC type truck scale controller
- Acquired CE and KC certification of controller SI400P

2022

- Developed feeder type packer controller SA511F, SA512F
- Developed 10' touch LCD type truck scale controller
- Developed 10' touch LCD type checker controller
- Acquired KC certification of indicator SI410W
- Acquired KC certification of controller SI600TS

2021

- Developed hoper controller - SA330CV series
- Acquired OIML certification of load cell SBW
- Developed Explosion Indicator - SI400Ex, SI500Ex
- Developed LPR System
- Developed digital load cell & indicator
- Developed check weigher controller SC500A
- Developed truck scale indicator SI600TS
- Developed DIN rail type SI240, SI240R
- Developed IoT indicator SI400W, SI410W

2016

1995

- Founded SEWHA Engineering
- Developed digital weight indicators
- Founded SEWHACNM co., Ltd
- Developed precision indicators

2000

- Developed Load Cell and Auto truck scale
- Acquired ISO9001/2000/KS A 9001:2001
- Developed External Display
- Acquired Patent of Auto screening system with angle meter by load cell
- Technology innovation development business prize
- Developed automatic truck weighing system controller

2005

- Acquired component and material reliability certification
- Acquired patent of Complex weighing management controller system
- Acquired "CE" certification of SI4000 series
- Developed hopper scale touch screen controller in R.P.C
- Developed double packer touch screen controller
- Acquired INNO-BIZ business certification
- Acquired CE certification of DIN size indicator
- Appointed to export business partner (Korea Export Support Association)
- Developed Tiny wall mount size digital weight indicator, SI200

2010

- Acquired CE certification of desk mounting type weighing indicator SI300
- Acquired OIML certification of shear beam load cell SB210 and tension load cell SS300
- Developed indicator SI460A, SI460C
- Acquired CE certification of indicator SI460C
- Developed new generation indicator SI400, SI410
- Developed new generation indicator SI500 series
- Developed new automatic truck scale controller for LPR(License Plate Recognition) system
- Acquired CE Certification of Indicator SI400, SI410

2015

# Company History



# Certification / Patent

## CE



## OIML



## ABS



## ISO9001



## R&D Center



## FTA



## PATENT



※ Each product is marked with certification marks.

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# Indicator

## Indicator Selection Guide

		SI240/ SI240R	SI400W	SI410W	SI200	SI300	SI400	SI400S	SI400R	SI400P	SI410	SI410P TMR	SI4630N	SI460A SI480E	SI580E	SI560A	SI510	SI520	SI530	SI540	SI550
FUNCTION	Hold	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
	Sub Display															●	●	●	●	●	●
	Parts Number Memory (kinds)	50	50	50			50	50	50	50	50	50					50	50	50	50	50
	Relay Output (pcs)	0 /7		7					3		7	3			4	4	7	7	7	7	7
	External Input (pcs)	2 /6	6	6			6	4	4	6	6	3		2	4	4	6	6	6	6	6
APPLICATION	Truck Scale	●	●	●	●	●	●	●	●	●	●	●	●	●							
	Animal Scale	●	●	●	●	●	●	●	●	●	●		●	●							
	Checkweigher	●		●							●				●	●			●		
	Packer	●		●					●		●				●	●	●	●			●
	Filler	●		●					●		●				●	●	●	●			●
	Tank Scale	●	●	●	●	●	●	●	●	●	●		●	●	●	●			●	●	
	Tester	●	●	●			●	●	●	●	●		●	●	●	●		●	●		
WEIGHING MODE	Limit	●		●					●		●	●			●	●	●	●	●	●	
	Packer	●		●						●					●	●	●	●			●
	Checker	●		●							●				●	●			●		
	Accumulation	●		●							●				●						
	Use choice	●		●							●				●						

Model Serial & Option		SI240/ SI240R	SI400W	SI410W	SI200	SI300	SI400	SI400S	SI400R	SI400P	SI410	SI410P TMR	SI4630N	SI460A SI480E	SI480E	SI560A SI580E	SI510	SI520	SI530	SI540	SI550
Current Loop		●	●	●		●	●	●	●	●	●	●	●				●	●	●	●	●
RS232C		●	●	●	●	●	●	●	●	●	●	●	●		○	●	●	●	●	●	●
RS485/RS422		●			○									●	●	●					
Analog Output		●	★	★			★		★	★	★		★	★		●	★	★	★	★	★
Serial Option	RS232C		★	★			★	★	★	★	★		★	★	★	●	★	★	★	★	★
	RS422		★	★			★	★	★	★	★						★	★	★	★	★
	RS485		★	★			★	★	★	★	★		★				★	★	★	★	★
BCD IN			★	★			★		★	★	★						★	★	★	★	★
BCD OUT			★	★			★		★	★	★						★	★	★	★	★
Ethernet		●	★	★			★		★	★	★						★	★	★	★	★
SD Memory							★		★	★	★						★	★	★	★	★
Wireless Interface			●	●																	
USB		●	●	●																	

● : Regular ○ : Regular(Selectable) ★ : Option

## General Specification

Input Sensitivity	Min 0.1 $\mu V$ / Digit
Load Cell Excitation	DC 5V
Non-Linearity	0.001% of full scale
Input Signal	Max 3.0mV/V
A/D Sampling	Max 120time/sec, Sigma-Delta
Resolution	Internal : 1/2,000,000, External : 1/20,000
Operating Condition	Temperature : -10°C ~ +40°C, Humidity : 85% RH Under

## Smart Solution Indicator



### SI240 series | OLED Din Rail Type Indicator

**NEW**

- DIN rail type
- 1.46"(128x128) OLED
- Weighing mode : Limit, Packer, Checker mode
- Support of USB Port for Data Storage
- Support of Modbus RTU, TCP/IP Protocol
- Support of Ethernet, RS485, RS232C



Model	Power	Display	Interface	External Input	Relay Output	Size(WxHxD)	Weight
SI240	DC12~24V 6W	1.46 Inch White OLED 128X128 Dot Matrix LCD	RS485, Ethernet Analog output: 4~20mA or 0~10V USB	2ea	none	49x96.5x70 mm	220g
SI240R			RS485, RS232C, Ethernet Analog output: 4~20mA or 0~10V USB	6ea	7ea		



### SI400W series | Wi-Fi Indicator

**NEW**

- Support of Wifi (802.11g)
- Support of USB for Data Storage
- Support of Modbus RTU, TCP/IP Protocol
- User Customized : External Input
- Hold Function : Sample, Average, Peak
- Cutting Size(WxH) : 186 x 92 mm



Model	Power	Display	Interface	External Input	Relay Output	Size(WxHxD)	Weight	Option
SI400W	AC100V~240V 50/60Hz	7Segments, 6 Digit Red FND	RS232C, Current Loop, Wi-Fi(802.11g), USB	6ea	none	200x100x127 mm	1.3kg	Serial Interface(RS232C, RS422, RS485) Analog Output Interface(0~10V, 4~20mA) Parallel Interface(BCD IN, BCD Out) Ethernet(TCP/IP) Data Storage Device(SD memory card)
SI410W					7ea			

# Indicator

## General Weighing Indicator



### SI400 series Indicator

- Hold Function : Sample, Average, Peak
- Support of Modbus RTU Protocol
- Various options available
- SI400 RoHS compliant
- Cutting Size(WxH) : 186 x 92 mm



Model	Power	Display	Interface	External Input	Size(WxHxD)	Weight	Option
SI400	AC100V~240V 50/60Hz	7Segments, 6 Digit Red FND	RS232C, Current Loop	6ea	200x100x127 mm	1.23kg	Serial Interface(RS232C, RS422, RS485) Analog Output Interface(0~10V, 4~2mA) Parallel Interface(BCD IN, BCD Out) Ethernet(TCP/IP) Data Storage Device(SD memory card)
SI400S				4ea			Serial Interface(RS232C, RS422, RS485)



### SI400P | Indicator with Printer

**NEW**

- Printable Indicator
- Options can be selected depending on the power supply
- Hold Function : Sample, Average, Peak
- Support of Modbus RTU Protocol
- Various options available
- Cutting Size(WxH) : 206 x 137 mm



Model	Power	Display	Interface	External Input	Size(WxHxD)	Weight	Option				
SI400P	AC100V~240V 50/60Hz	7Segments, 6 Digit Red FND	RS232C, Current Loop	6ea	220x150x128 mm	1.2kg	Serial Interface(RS232C, RS422, RS485) Analog Output Interface(0~10V, 4~20mA) Parallel Interface(BCD IN, BCD Out) Ethernet(TCP/IP) Data Storage Device(SD memory card)				
							<b>Print Method</b>	<b>Printer Density</b>	<b>Printer Speed</b>	<b>Word Size(WxH)</b>	<b>Paper Info.</b>
							Direct thermal print and auto paper feed	384 dots/line 8 dots/mm	85 mm/s (max.)	0.75 x 1 mm	58(W)x Ø30 Thermal Roll Paper Printing width : 48mm



### SI460, SI480E | Din Size Indicator

- Hold Function : Sample, Average, Peak
- Power Selectable : DC & AC Ordering Spec.
- Support of Modbus RTU protocol
- SI460A Cutting Size(WxH) : 92 x 92 mm
- SI480E Cutting Size(WxH) : 93 x 46 mm



	Power	Display	Interface	External Input	Size(WxHxD)	Weight	Option
SI460A	DC12~24V, 12W (SMPS Adapter option)	7Segments, 6 Digit Red FND	RS422 & RS485	2ea	96x96x97 mm	DC 0.5kg AC 0.7kg	Serial Interface(RS232C)
SI480E					96x48x97 mm	0.7kg	



# General Weighing Indicator



## SI200 Indicator

- Wall Mount Type
- Hold Function : Sample, Average, Peak
- RS232C or RS485 Interface(Selectable)
- Support of Modbus RTU Protocol



Model	Power	Display	Interface	Size(WxHxD)	Weight
SI200	DC12~24V, 8W (SMPS Adapter option)	7Segments, 6 Digit Red FND	RS232C or RS485	49x111x33 mm	160g



## SI300 series Indicator

- Wall Mount Type
- Hold Function : Sample, Average, Peak
- Support of Modbus RTU Protocol



Model	Power	Display	Interface	Size(WxHxD)	Weight	Battery
SI300A	AC100V~240V, 50/60Hz	7Segment, 6 Digit Red FND	RS232C, Current Loop	236x170x122 mm	2kg	none
SI300B	Charger input power : AC100~240V, 50~60Hz, 1A Charger output power : DC4.2V, 2A					Li-ion, 3.7V, 5400mAh 18 hours can last with 4EA of 350Ω Load Cell



## SI4630N series Indicator

- Wall Mount Type, External Display Type Indicator
- Hold Function : Sample, Average, Peak



Model	Power	Display	Interface		Size(WxHxD)	Weight	Option
			serial	Analog output			
SI4630N	AC100V~240V, 50/60Hz	7Segment, 6 Digit Red FND	RS232C, Current Loop	none	385x142x142 mm	3kg	IR Wireless Key pad
SI4630NF			RS232C, RS422, RS485, Current Loop	0~10V or 4~20mA			

# Indicator

## General Control Weighing Indicator



### SI400 series Indicator

- SI400R weighing mode : Limit mode
- SI410 weighing mode : Limit, Packer, Check mode
- Hold Function : Sample, Average, Peak
- SD memory(Optional card)
- Support of Modbus RTU Protocol
- Cutting Size(WxH) : 186 x 92 mm



Model	Power	Display	Interface	External Input	Relay Output	Size(WxHxD)	Weight	Option
SI400R	AC100V~240V 50/60Hz	7Segment, 6 Digit Red FND	RS232C, Current Loop	4ea	3ea	200x100x127 mm	1.25kg	Serial Interface(RS232C, RS422, RS485) Analog Output Interface(0~10V, 4~20mA) Parallel Interface(BCD IN, BCD Out) Ethernet(TCP/IP) Data Storage Device(SD memory card)
SI410				6ea	7ea			



### SI410P-TMR | Indicator with Printer

**NEW**

- Printable Indicator for weighing data
- Weighing mode : Limit mode
- Hold Function : Sample, Average, Peak
- Support of Modbus RTU Protocol



Model	Power	Display	Interface	External Input	Relay Output	Size(WxHxD)	Weight	Option
SI410P	DC 12-24V, 3A	7Segment, 6 Digit Red FND	RS232C, Current Loop	3ea	3ea	256x163x83 mm	1kg	none
	<b>Print Method</b>		<b>Printer Density</b>		<b>Printer Speed</b>	<b>Word Size(WxH)</b>	<b>Paper Info.</b>	
	Direct thermal print and auto paper feed		384 dots/line 8 dots/mm		85 mm/s (max.)	0.75 x 1 mm	58(W)x Ø30 Thermal Roll Paper Printing width : 48mm	



### SI560A, SI580E | Din Size Indicator

- SI560A Weighing mode : Limit, Packer, Checker mode
- SI580E Weighing mode : Limit, Packer, Accumulation mode
- Power Selectable : DC & AC Ordering Spec.
- Support of Modbus RTU Protocol
- SI560A : Support of Sub display
- SI560A Cutting Size(WxH) : 92 x 92 mm
- SI580E Cutting Size(WxH) : 93 x 46 mm



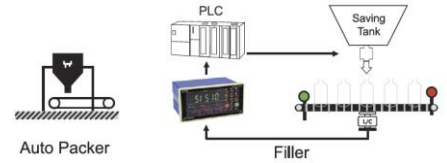
Model	Power	Display	Interface		External Input	Relay Output	Size(WxHxD)	Weight	Option
			Serial	Analog Output					
SI560A	Type 1. DC12~24V, 12W (SMPS Adapter option)	Main : 7Segment, 6 Digit Red FND Sub : 7Segment, 10 Digit Red FND	Slot 1 - RS422, RS485, RS232C	0~10V or 4~20mA	4ea	4ea	96x96x97 mm	DC 0.5kg AC 0.7kg	Slot 2 - RS422, RS485
SI580E	Type 2. AC100V~240V, 50/60Hz	7Segment, 6 Digit Red FND	Slot 1- RS422, RS485 Slot 2- RS232C		4ea	4ea	96x48x97 mm	0.7kg	none
SI580EN			Slot 1- RS422, RS485 Slot 2- Ethernet(TCP/IP)		4ea	4ea			

# Precision Control Weighing Indicator



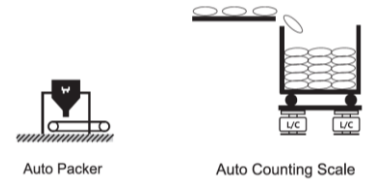
## SI510 | Packaging Control Indicator

- Multi display(Main, P/N, Bulk, Free fall, etc.)
- Weighing mode : Limit, Packer mode
- Automatic free fall & revision function
- Support of Modbus RTU Protocol



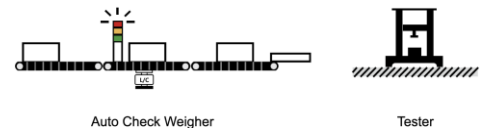
## SI520 | Quantity Control Indicator

- Customized to counting/unit weight
- Multi display(Main, P/N, Count, Unit weight, etc.)
- Weighing mode : Limit, Packer mode
- Support of Modbus RTU Protocol



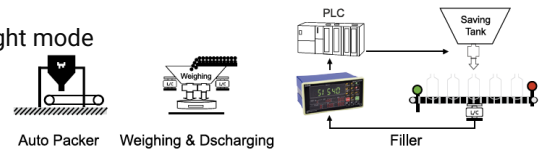
## SI530 | Weight Check Control Indicator

- Low-end type checkweigher, Laboratory tester
- Multi display(Main, P/N, Over, Under, etc.)
- Weighing mode : Checker Mode
- Support of Modbus RTU Protocol



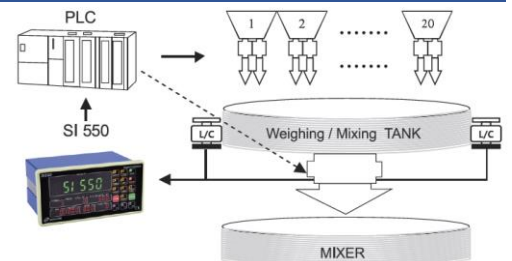
## SI540 | Packaging Control Indicator(Loss in Weight)

- Multi display(Main, P/N, SP1~4, Count)
- Weighing mode : Limit, Packer, Loss in weight mode
- Support of Modbus RTU Protocol



## SI550 | Multiple Mixture Control Indicator

- Multi display(Main, Formula, Bin, Accumulated weight, Free fall, etc.)
- 50 kinds formula(Max. 20 kinds material)
- Auto batch accumulation mode with PLC
- Support of Modbus RTU Protocol



Model	Power	Display	Interface	External Input	Relay Output	Size(WxHxD)	Weight	Option
<b>SI500 series</b>	AC100V~240V 50/60Hz	Main : 7Segment, 6 Digit GREEN FND Sub : 7Segment, 15 Digit Red FND	RS232C, Current Loop	6ea	7ea	200x100x127mm  <b>Cutting Size(WxH)</b> : 186 x 92 mm	1.3kg	Serial Interface(RS232C, RS422, RS485) Analog Output Interface(0~10V, 4~20mA) Parallel Interface(BCD IN, BCD Out) Ethernet(TCP/IP) Data Storage Device(SD memory card)

# Indicator

## Explosion proof Indicator



SI500Ex series Explosion proof Indicator	
SI500Ex(510)	<b>Packaging Control Explosion proof Indicator</b> <ul style="list-style-type: none"> <li>Multi display(Main, P/N, Bulk, Free fall, etc.)</li> <li>Weighing mode : Limit, Packer mode</li> <li>Automatic free fall &amp; revision function</li> </ul>
SI500Ex(520)	<b>Quantity Control Explosion proof Indicator</b> <ul style="list-style-type: none"> <li>Customized to counting/unit weight</li> <li>Multi display(Main, P/N, Count, Unit weight, etc.)</li> <li>Weighing mode : Limit, Packer mode</li> </ul>
SI500Ex(530)	<b>Weight Check Explosion proof Indicator</b> <ul style="list-style-type: none"> <li>Low-end type checkweigher, Laboratory tester</li> <li>Multi display(Main, P/N, Over, Under, etc.)</li> <li>Weighing mode : Checker Mode</li> </ul>
SI500Ex(540)	<b>Packaging Control Explosion proof Indicator</b> <ul style="list-style-type: none"> <li>Multi display(Main, P/N, SP1~4, Count)</li> <li>Weighing mode : Limit, Packer, Loss in weight mode</li> </ul>
SI500Ex(550)	<b>Multiple Mixture Control Explosion proof Indicator</b> <ul style="list-style-type: none"> <li>Multi display, Main, Formula, Bin, Accumulated weight, Free fall, etc.)</li> <li>50 kinds formula(Max. 20 kinds material)</li> <li>Auto batch accumulation mode with PLC</li> </ul>

Power	Display	Interface	External Input	Relay Output	Size(WxHxD)	Weight	Option
AC110V~240V 50/60Hz	Main : 7Segment, 6 Digit GREEN FND Sub : 7Segment, 15 Digit Red FND	RS232C, Current Loop (Support of MODBUS RTU)	6ea, Dry contact	7ea	320x400x245 mm	20kg	Serial Interface(RS232C, RS422, RS485) Analog Output Interface(0~10V, 4~20mA) Parallel Interface(BCD IN, BCD Out) Ethernet(TCP/IP) Data Storage Device(SD memory card)

# Indicator

## Option Card



BCD IN

BCD OUT

Ethernet  
(Modbus TCP/IP)

Serial Interface  
(Modbus RTU)  
(RS232C, RS422,  
RS485)

Analog Output  
(4-20mA, 0-10V)

SD Memory Card



# Indicator Indicator Box



- Dust & Water proof
- Material  
Type 1. Powder-coated steel  
Type 2. Stainless steel

Model	Key	Size
SB100WP	POWER, ZERO, TARE, F	234(W)x190(H)x214(D) (mm)
SB200WP	POWER, ZERO, TARE, PRINT	254(W)x240(H)x222(D) (mm)

# Thermal Printer



Model	Power	Size(WxHxD) Weight	Print Method	Printing density	Printer speed	Thermal Roll Paper Size	Printing width	Interface
SP70T	DC 5V-9V	111x65x57mm 132 g	Thermal print	384 dots/line	85mm/sec	58(W)x Ø38	48mm	TTL or RS232C serial
SP80T	AC 100-240V Free Voltage	139x147x195mm 1.07 kg		384 dots/line	250mm/sec	80(W)xØ80	72mm Or 48mm	Serial(RS232C)
SLK-TS400		130x140x154mm 1.25 kg		512 dots/line	220mm/sec	80(W)xØ83	72mm	Serial(RS232C)

# External Display



- Wall Mounting Type
- Dust & Water proof
- RS232C / RS485, Current Loop Auto detection available
- Connectable to Other Brand's Indicators(CAS, AND)
- Communication Speed Auto Setting (2,400 ~ 115,200 bps)
- Buzzer Option(SE6145A, SE6165A)



Model	Letter Size	Weight	Power Supply	Operating Condition	Size(mm)
SE6125N	58.4mm	2.0kg	AC Free Voltage (AC100V~240V, 50/60Hz)	Temperature : -10°C ~ +40°C, Humidity : 85% RH Under	315x142x142
SE6135N	76.2mm	3.0kg			385x142x142
SE6145A	101.6mm	7.0kg			545x183x185
SE6165A	152.4mm	9.0kg			720x247x210

# Truck Scale

## Truck Scale Indicator\_SI610TS

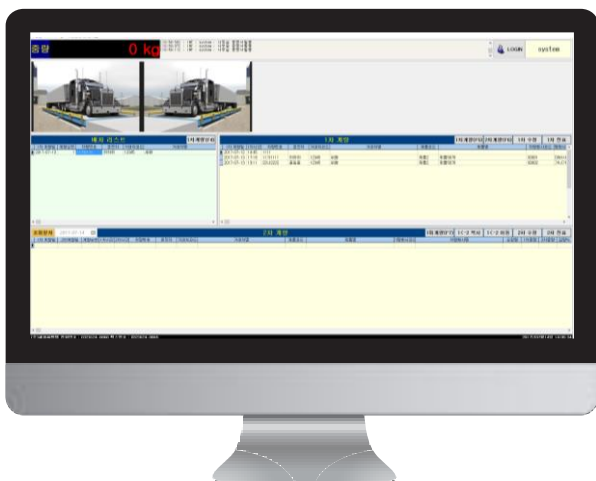


\* SP80T Printer(Optional)

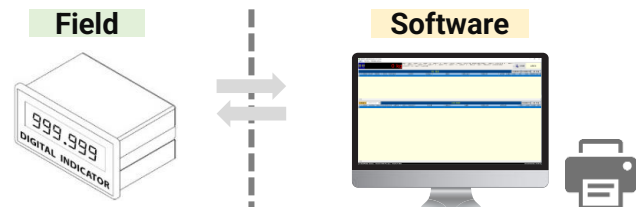


<b>System</b>	<b>Processor</b>	Intel® Celeron® Quad-core Processor J4125 2.0GHz/2.7GHz
	<b>Storage</b>	2.5" SATA III SSD 64GB
	<b>Memory</b>	4GB SO-DIMM
	<b>OS</b>	Windows 10 IoT Enterprise
<b>LCD</b>	<b>Type</b>	15" WLED Backlight (1024 x 768 Resolution)
	<b>Touch</b>	True-Flat Capacitive 10 Point Multi-touch
<b>I/O Interface</b>	<b>Serial</b>	DSUB9 RS232 X 3
	<b>USB</b>	4 x USB 3.0, 3 x USB 2.0
	<b>Audio</b>	1 x Audio-out
	<b>LAN</b>	1 x RJ45(Base-T 10/100/1000 Ethernet)
<b>Load Cell</b>	<b>Input Sensitivity</b>	Min 0.1μV / Digit
	<b>Input Signal</b>	Max 3.2mV/V
	<b>Load Cell Excitation</b>	DC 5V
	<b>A/D Sampling</b>	Max 120time/sec, Sigma-Delta
<b>General</b>	<b>Resolution</b>	Internal : 1/2,000,000 External : 1/20,000
	<b>Size</b>	362(W) x 237(D) x 357~380(H)
	<b>Weight</b>	5.0 kg
	<b>Power</b>	DC 12V/5A (AC 100V~240V, 60W)
	<b>Operating Condition</b>	0~50℃, 10%~ 90% RH, Non-condensing

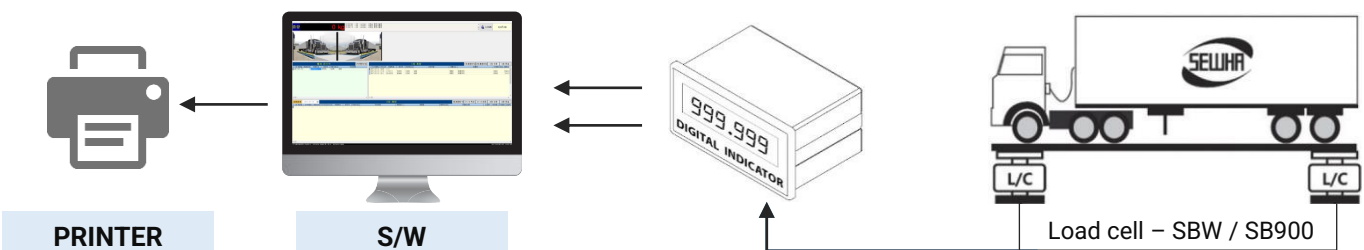
## Truck Scale Program\_TS2020



<b>Inquiry</b>	<ul style="list-style-type: none"> <li>User can make copy of main program.</li> <li>User can check weighing data's real time.</li> <li>Data can be saved and printed.</li> <li>Main program can be customized developing.</li> </ul>
<b>IP Camera</b>	<ul style="list-style-type: none"> <li>Only can use Hanhwa Techwin co's IP Camera.</li> <li>User can check SMART VIEWER, memory card doesn't need.</li> <li>Water proof housing is available.</li> </ul>



### Basic Application



## Automatic Truck Scale

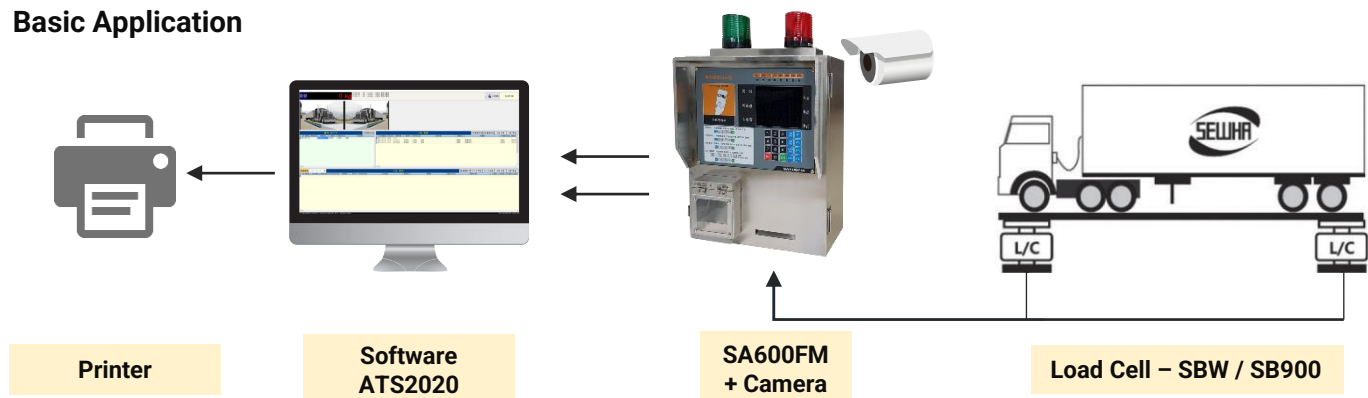
	SA600FM   FND type Controller	SA600G   Touch LCD type Controller
Image		
Size(mm)	W420 x H650 x D305 (H: Lamp height included)	W420 x H540 x D305
Type	LPR, RFID card, Keypad	LPR, RFID card, Touch LCD
Interface	PC : RS422, Indicator : RS232	PC : RS422, Indicator : RS232
Display	Current / Vehicle / Net(6 Digit 1" Red FND)	15" Touch LCD, DPI : 1024x768
Printer	Direct Thermal Printing, Auto Cutting	
Paper	Thermal Roll Paper : 80(W) x ø80mm	
RFID reader	Maximum : 20mm	
Speaker	5W Speaker Built-in (about 80dB)	
Temperature control	Fan/Heater Built-in	
Power	AC 220V / 60Hz	
Option	Inter-Phone	Inter-Phone, Lamp



### ATS2022 | Automatic Truck Scale Program

- Using MS SQL Database
- Easily to use and can measure weight
- Basic information Registrations & Management
- All date can be converted to excel file
- IP Camera accepted and Window11 version program

#### ■ Basic Application



# Controller

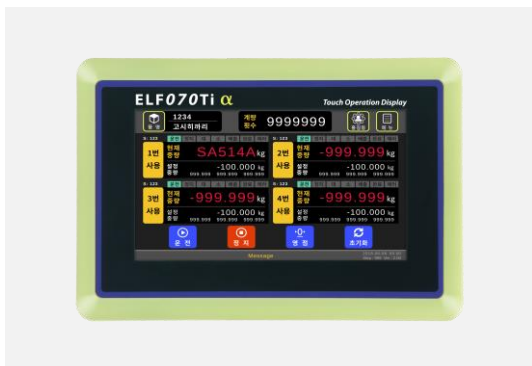
## Packaging Controller



### SA400 series | FND type Packer



<b>Display type</b>	FND(Red)
<b>Size(mm)</b>	SA410DS(Single) : 250(W) x 161.5(H) x 90(D) (Cutting Size : 224(W) x 137(H)) SA420DS(Double) : 250(W) x 240(H) x 90(D) (Cutting Size : 224(W) x 197(H))
<b>Composition</b>	Single(SA410) Double(SA420)



### SA510A series | Touch LCD type Packer



<b>Display type</b>	TFT LDC(260,000 color, 4wire system, 300cd)
<b>Size(mm)</b>	220(W) x 150(H) x 83(D) Cutting Size : 203(W) x 133(H)
<b>Composition</b>	Single (SA511A) Double (SA512A)

## Weight Check Controller



### SC500A | Touch LCD type Checker



<b>Display type</b>	7" TFT LDC(260,000 color, 4wire system, 300cd/m <sup>2</sup> )
<b>Size(mm)</b>	220(W) x 150(H) x 83(D) Cutting Size : 203(W) x 133(H)

- Various Weighing mode (Current Weight, Deviation)
- Maximum 180times Weighing per 1 Min.
- Function of relay output is selectable (Total 14 kinds / Relay Output : 8EA)
- High speed judgment & 50 P/N's set value is able to save
- [Option] Various external device is able to connect(Metal detector, Printer, PC)



### SC600MS series | Touch LCD type Fruit Sorter

<b>Display type</b>	10" TFT LDC(1280x800, 4wire system, 350cd/m <sup>2</sup> )
<b>Size(mm)</b>	295(W) x 200(H) x 64(D) Cutting Size : 279(W) x 184(H)

- Maximum 180times Weighing per 1 Min.
- Relay Output : 16ea [option : 16 additional relay outputs]
- High speed judgment & 50 P/N's set value is able to save
- Printer is able to connect



# Load Cell Selection Guide

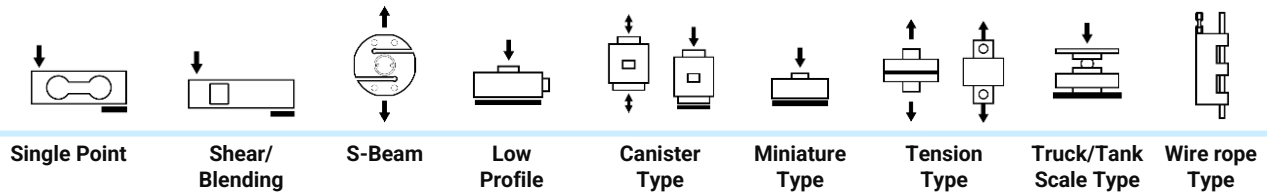
**Material**  
 A : Aluminum  
 S : Steel  
 L : Stainless steel

**Number**      **Capacity**

## A S 100 - 100 kgf

**Unit**  
 Kgf  
 Tf  
 1bf  
 N

B : Beam-Type  
 S : S-Type  
 L : Low-Profile  
 C : Canister  
 M : Miniature  
 H : Hollow  
 O : Option



	AB				ABH	LBB	SB	SS		SL		SC		SM			ST		SB		SBW	SWL	CLS	BCLS	CBCS	CBSS	CHBS	RPWB
Capacity	120C	120	130	140	150	100	200	210	300	310	410	420	520	530	600E	601E	603E	800E	900	910	920	100						
300gf	•																											
600gf	•																											
1kgf	•															•												
2kgf	•											•				•												
3kgf	•															•												
5kgf	•	•				•										•												
10kgf	•	•				•	•									•									•			•
15kgf	•					•	•									•									•			
20kgf	•	•				•		•								•									•			•
30kgf	•	•	•			•										•									•			•
50kgf	•	•	•			•									•	•		•							•			•
60kgf		•														•												
75kgf					•																							
100kgf		•			•			•							•	•		•							•			•
150kgf		•						•	•							•									•			
200kgf							•	•	•				•		•	•		•							•			•
250kgf								•																	•			
300kgf		•						•	•				•		•										•			•
500kgf			•				•	•	•	•			•		•	•		•					•	•	•	•	•	•
1tf				•				•	•	•		•		•	•								•	•	•	•	•	•
1.5tf									•	•		•											•				•	•
2tf								•	•	•		•			•	•								•			•	•
3tf								•	•	•		•												•			•	•
4tf								•	•	•		•												•			•	•
5tf								•	•	•		•			•									•			•	•
8tf								•	•	•		•												•			•	•
10tf								•	•			•			•				•	•	•			•			•	•
15tf																			•					•			•	•
20tf											•	•		•	•				•				•			•	•	•
25tf											•	•							•	•	•		•			•	•	•
30tf											•	•							•				•			•	•	•
50tf											•								•							•	•	•
70tf											•								•								•	•
100tf											•								•								•	•
200tf											•								•								•	•
500tf											•								•								•	•
800tf											•								•								•	•

# Load Cell

## Single Point Load Cell

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep(30min.)	Material
AB120C	300, 600gt, 1, 2, 3kgf	1.0 ± 0.1	0 ± 0.1 mV/V	0.03%	0.03%	Aluminum
AB120	3, 5, 10, 15, 20, 30, 50kgf	2.0 ± 0.1				
AB130	30, 50, 60, 100, 150, 300kgf					
AB140	500, 1tf					
AB150	5, 10, 15, 20, 30, 50, 75, 100kgf	2.0 ± 0.2			0.017%	
ABH100	3, 5, 7, 10, 15kgf				0.02%	



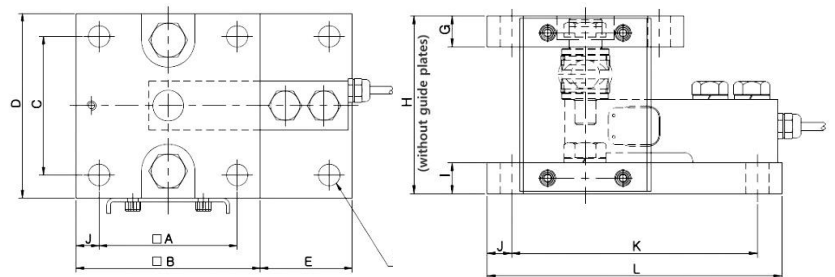
## Shear Beam Load Cell & Accessory

OIML	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material
SB210	150, 200, 250, 500kgf 1, 2, 3, 5, 10tf	2.0 ± 0.005	0 ± 0.2 mV/V	0.03%	0.03%	Nickel plated steel (Option - Stainless steel(LB210))



### SB210 TW Accessory Dimension

Capacity	A	B	C	D	E	F	G	H	I	J	K	L
150kgf	90	120	90	120	60	14	19	107	19	15	150	180
250kgf												
500kgf												
1tf												
2tf												
3tf	110	150	110	150	80	20	25	135	30	20	190	230
5tf												



## Bending Beam Loadcell

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material
LBB200	10, 20, 50, 100, 200, 300, 500kgf	2.0 ± 0.005	0 ± 0.2 mV/V	0.03%	0.03%	Stainless steel



## SS Beam Load Cell

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material
SS300 OIML	2,5,10,20kgf	2.0 ± 0.005	0 ± 0.02 mV/V	0.03%	0.03%	Aluminum
LS300	50, 100, 150, 200, 300, 500kgf 1, 2, 3, 5, 10tf					Stainless steel



## Tension Load Cell

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material
SS310	500kgf, 1, 2, 3, 5tf	2.0 nominal	0 ± 0.2 mV/V	0.03%	0.03%	Nickel plated steel



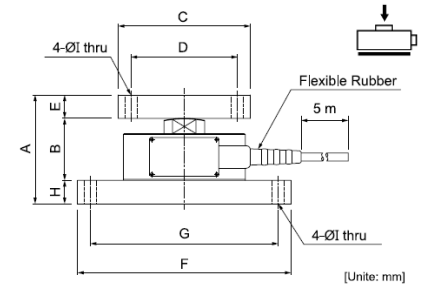
## Pan Cake Load Cell & Accessory

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material	Accessory
SL410	1, 2, 3, 5, 10, 20, 30, 50, 100, 200tf	2.0 ± 0.005	0 ± 0.02 mV/V	0.05%	0.03%	Paint finished steel	Compression Acc. Ball Acc.
SL420	2, 5, 10, 20, 50, 100tf	3.0 ± 0.0075	0 ± 0.03 mV/V				-



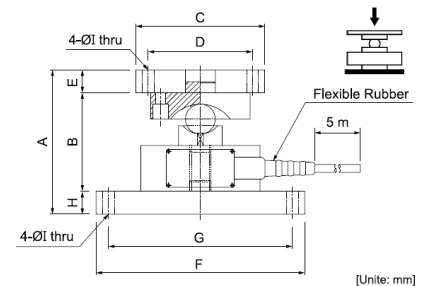
### SL410 Compression Accessory Dimension

Capacity	A	B	C	D	E	F	G	H	I
1, 2, 3tf	105	59	130x130	105x105	23	210x130	185x105	23	12
5tf	107	61	130x130	105x105	23	210x130	185x105	23	12
10tf	140	80	160x160	125x125	30	160x160	125x125	30	14
20, 30tf	175	115	200x200	150x150	30	200x200	160x160	30	14
50tf	195	107	260x260	200x200	58	260x260	200x200	30	23
100tf	245	157	360x360	280x280	58	360x360	280x280	30	27



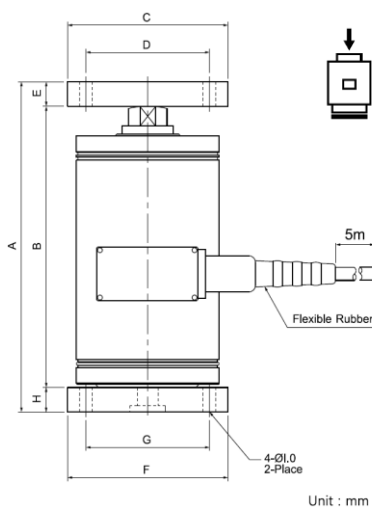
### SL410 Ball Accessory Dimension

Capacity	A	B	C	D	E	F	G	H	I
1, 2, 3tf	136	90	130x130	105x105	23	210x130	185x105	23	12
5tf	145	99			23	210x130	185x105	23	12
10, 15tf	166	106			30	160x160	125x125	30	14
20, 30tf	196	136			30	200x200	160x160	30	14



## Canister Load Cell & Accessory

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material	Accessory
SC520	0.2, 0.3, 0.5, 1, 2, 3, 5, 10, 20tf	3.0 ± 0.003	0 ± 0.03 mV/V	A : 0.02% B : 0.05%	0.03%	Paint finished steel	Compression Acc. Tension Acc.
SC530	20, 30, 50, 100, 200, 500, 800tf	2.0 ± 0.005		0.15%			

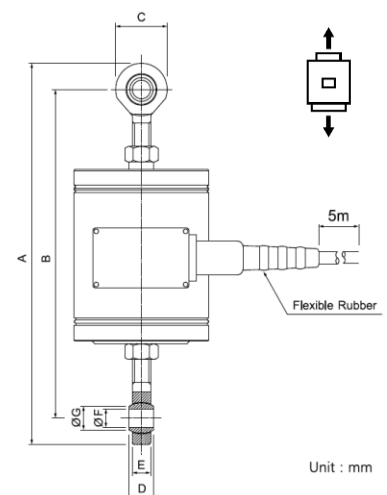


### SC520 Compression Accessory Dimension

Capacity	A	B	C	D	E	F	G	H	I
200kgf	153.7	123.7	100	77	15	100	77	15	8
300kgf									
500kgf									
1tf	210.3	164.3	130	105	23	130	105	23	12
2tf									
3tf									
5tf									
10tf									
20tf	375.5	315.5	200	150	30	200	150	30	14

### SC520 Tension Accessory Dimension

Capacity	A	B	C	D	E	F	G
200kgf	255~260	221~216	30	16	12	12	15.4
300kgf							
500kgf							
1tf	525~530	423~428	64	28	20	22	26.1
2tf							
3tf							
5tf							
10tf							
20tf	Demand		Accessory				



# Load Cell

## Miniature Loadcell

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material
<b>SM600E</b>	50, 100, 200, 500kgf, 1, 2, 5, 10, 20tf	2.0 ± 0.02	0 ± 0.1 mV/V	0.15%	0.03%	0.05~2tf : Stainless steel 5~20tf : Paint finished steel
<b>SM601E</b>	1, 2, 5 kgf	about 0.5	2.0 mV/V	1.0%	1.0%	1~10kgf : Aluminum 20kgf~2tf : Stainless steel
	10, 20, 30, 50, 100, 200, 300, 500kgf, 1, 2tf	about 1.0				
<b>SM603E</b>	50, 100, 200, 500kgf, 1, 2tf	2.0 ± 0.02	0 ± 0.1	0.15%	0.03%	Stainless steel



## Load Cell for Wire rope

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material
<b>SWL100</b>	0.5, 1, 1.5, 4, 8, 10tf	0.7 nominal	0 ± 0.1 mV/V	2.0%	1.0%	Nickel plated steel




## Tension Meter Load Cell

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material
<b>ST800E</b>	10, 20, 30, 50tf	2.0 nominal	0 ± 0.2 mV/V	0.03%	0.03%	Nickel plated steel




## Truck Weighing Load Cell

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material
<b>SB900</b>	10, 15, 20, 30tf	2.0 ± 0.004	0 ± 0.03 mV/V	0.03%	0.03%	Paint finished steel



## Truck & Tank Weighing Load Cell

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material
<b>SB920</b>	25, 30tf 50, 100tf(special order)	2.0 ± 0.004	0 ± 0.02 mV/V	0.02%	0.02%	Paint finished steel
<b>SBW</b> 	25, 30tf 50tf(special order)	2.0 ± 0.006	0 ± 0.03 mV/V		0.017%	Stainless steel





## Explosion Proof Pan Cake Loadcell : Ex d IIB T6

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material	Accessory
CLS-Exd	0.5, 1, 2, 3, 5, 10, 15, 20, 30tf	2.0 ± 0.005	0 ± 0.03 mV/V	0.05%	0.03%	Paint finished steel	- Compression - Ball - Protection to breakaway
SLS-Exd						Stainless steel	



## Explosion Proof Single Point Loadcell : Ex d IIC T6 / Ex tD A21 85 °C (IP68)

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material	Accessory
BCLS-Exd	10, 20, 30, 50, 75, 100 kgf	2.0 ± 0.2	0 ± 0.1 mV/V	0.03%	0.03%	Stainless steel	-



## Explosion Proof Single Point Loadcell : Ex d IIB T6

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material	Accessory
CBCS-Exd	150, 250 500 kgf	2.0 nominal	0.0 ± 0.03 mV/V	0.03%	0.03%	Stainless steel	-



## Explosion Proof Bending & Shear Loadcell : Ex d IIC T6 / Ex tD A21 85 °C

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material	Accessory
CBSS-Exd	0.5, 1, 2, 3, 5tf	2.0 ± 0.005	0.0 ± 0.03 mV/V	0.03%	0.03%	Stainless steel	Compression



## Explosion Proof Bending & Shear Loadcell : Ex d IIC T6 / Ex tD A21 85 °C

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material	Accessory
CHBS-Exd	20, 50, 100, 200, 300, 500kgf	2.0±0.005	0.0±0.2 mV/V	0.03%	0.03%	Stainless steel	Protection to breakaway



## Explosion Proof Tank&Truck Weighing Loadcell : Ex d IIC T6 / Ex tD A21 85 °C

	Rated Capacity	Rated Output(R.O)	Zero Balance	Combined Error	Creep (30min.)	Material	Accessory
RPWB-Exd	10, 25, 30 tf	2.0±0.005	0.0±0.03 mV/V	0.03%	0.03%	Stainless steel	-



# Load Cell

## Load Cell Transmitter

	Output	Power	Analog Signal Input	Transducer Affirmation Voltage	Balance	Size (WxHxD)
ST-V05	0~5V	12~25V, 17~24V	1.2, 2.0, 3.0mV/V (0.5~4.0 mV/V DIP)	5V/10V Constant Voltage (Remote Sense 5V/10V)	Zero : ±30%(R.O) Span : ±10%(R.O)	49x96x33mm
ST-V15	1~5V					
ST-V010	0~10V					
ST-I420	4~20mA,					
ST-I020	0~20mA,					
ST-I040	0~40mA					



## Summing Box

	Size (WxDxH)	Material	Load Cell Quantity	SB-SP-04	SB-MP-06	SB-LP-08
SB-SP-04	130x80x35mm	ABS Plastic	4ea			
SB-MP-06	130x130x60mm		6ea			
SB-LP-08	180x130x60mm		8ea			
SB-ML-04	130x130x60mm	Stainless Steel	4ea			
SB-ML-06	130x130x60mm		6ea			

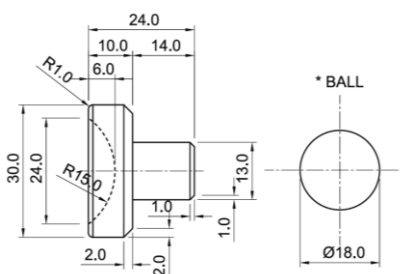
## Explosion proof Summing Box

	Size(WxDxH)	Load Cell Quantity	Certification	Marking
SB-ME-04	105x140x65mm	4ea	KCs	Ex d IIB+H2 T6



## Load Cell Accessories

### Ball & Cup



### Load Cell Foot



### Rod End bearing



# Overseas Agent Information





## SEWHACNM Co., Ltd. 주식회사 세화씨엔엠

*SEWHACNM is one of the leading companies in weighing and automatic control system business in Korea, desperately contributing to the automatic control system at the factory with outstanding technology and service.*

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<http://www.sewhacnm.co.kr>



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