FC1000

UNPULSE WEIGHING INDICATOR FC1000 kg **∆** TARE 3 123 **∇** ZERO 2 LOWER 3 NEARS 4 SP1 SP2 CPS 3 G/N 7 DVER 8 UNDER 9 FINAL 0 D CODE F NGIEN

STANDARD TYPE WEIGHING INDICATOR



New Standard for Weighing Indicator!! Significantly improved basic-performance. SD memory card is supported.

SD card slot

You can write and read setting parameters from SD cards, while recording weighing results & data when abnormalities occur.



Calibration value & Error logs are automatically recorded You can identify the indications of faulty load cells and replacement timing. Date & time of errors occurred can be displayed, as well as the record of how the errors are made (through key control, communication, I/O, etc).

Data recording of weighing results Monitor management of raw material, equipment operation rate and so on. Long-term trend can be observed as well.

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Restore setting parameters with just one touch

- You can copy setting parameters to another replaced FC1000.
- Multiple FC1000s can use the exact same settings.
- You can restore the initial setting when you first install FC1000. (It will be saved as initial value separately

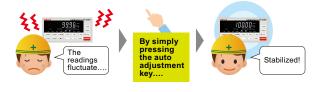
from the setting parameters)

Depth of 99 mm

Miniaturization of control panel & panel space saving.

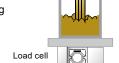
High performance filter & Auto filter adjustment

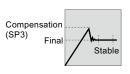
With combination of low pass filter (0.1 to 300 Hz) which corresponds to various vibration and moving average filter (OFF, 2 to 512) that is effective for periodic vibration, automatic searching for optimal value with accuracy and stability can be achieved. (You can manually adjust settings too)



Minus compensation

High-pressure liquid filling & powder feeding can be done.





Equivalent to IP65 protection

By placing the rubber seal when mounting on the panel, the front panel can be protected from moisture and dust damage.

High sampling rate & resolution

High-Speed A/D conversion and powerful digital processing capability of 1200 times/sec. High display resolution of 1/100000 (max). Measurement can be performed quickly and precisely due to high speed A/D conversion.

Load cell signal level display (-2.5 to 5.1 mV/V)

The output signal level of load cell can be displayed in mV/V for monitor purpose.Malfunction indicator or faulty sensor can be differentiated easily.

Total weight control functiont

The batch weighing with a low capacity scale enables the fast and accurate measurement of larger total weight.





The batch weight is adjusted automatically based on the target total weight, and the feeding is controlled in three steps (SP1/SP2/SP3) for more accurate weight measurement.

At first, [coarse feeding] is performed with lower accuracy. But, when the total weight reaches to the total weight set point, the weighing mode automatically switches to [fine feeding] with the higher accuracy. higher accuracy.

Feeding hopper

FC1000

Bright white LCD display with the useful 20 digits sub display

The sub display can be used to show the cumulative weight, code/preset number, etc...



6 digit display

24 bit A/D convertor enables 6 digit display.

Memory for 32 weight settings

32 different weight settings can be saved in the memory and selected through I/O or interface. Batch weighing can be performed easily.

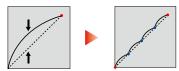
	input		

Theoretical calibration can be performed easily by registering the capacity and rated output of load cells.

Multipoint calibration (linearization)

Three additional points can be defined in the middle between zero and span for better linearity.

Even though the scale has poor linearity, it can be corrected to be a highly accurate scale.



			External					
	Excitation voltage	DC 5 V±5% Output current: Within 90 mA		Output signal	5	Selectable/configurable		
		Remote sense type (Up to 6 350 Ω load cells can be connected in parallel)		(12)	0	Open collector output		
	Signal input range	-2.5 to +5.1 mV/V			`	Vceo = 30 V, Ic = 120 mA		
	Zero adjustment range	Automatic adjustment by digital processing -2.5 to +2.0 mV/V		Input signal	1	Selectable/configurable		
	Span adjustment range	Automatic adjustment by digital processing 0.02 to +3.0 mV/V		(8)	1	Non-voltage contact input		
	Linearization function	Can calibrate up to 3 points other than zero/span			((internal circuit power supply voltage 12 V)		
	Min. input sensitivity	0.15 µV/count	Interface	SIF: 2-w	wire type	e serial interface		
	Accuracy	Non-linearity: Within 0.01% FS		SDC: SD	card sl	ot		
	-	Zero drift: 0.0002% FS/°C typ.		232 or 485: Sel	elect eith	er RS-232C or RS-485 interface		
		Gain drift: 1 ppm/°C typ.		CCL: CC	C-Link in	iterface (option)		
	Filter	Digital low-pass filter 0.1 to 300 Hz		DAC: D/A	A convei	rter current output (Option)		
		Moving average filter OFF, 2 to 512 times		BCO: BC	BCO: BCD parallel data output interface (Option)			
	A/D converter	Speed: 300 times/sec., 1200 times/sec. (dependeing on setting)	General	Power supply vo	oltage /	AC 100 to 240 V (+10%-15%) (free power source 50/60 Hz		
		Resolution: 24 bit (binary)	specificati			5 W typ.		
Display	Display unit	7-segment LCD display Main display: 8 digit (14.4 mm character height),		Operating condi		Operation temperature: -10 to +50°C		
Biopiay	Display unit	sub-display: 20 digit (4.3 mm character height)				Storage temperature: -20 to +60°C		
	Display value	5 digit sign: negative display at the highest digit (Up to 6 digits)				Humidity: 85% RH or less (non-condensing)		
	Unit	None/ kg/ g/ t/ lb/ N		Dimension		144(W) × 72(H)× 109(D) mm (Not including projections)		
	Decimal point	0, 0.0, 0.00, 0.000		Weight		Approx. 850 g		
	Weight errors	"LOAD": sensor signal level is above the signal input range, "-LOAD": the	Attachmer					
	Weight errors	sensor signal level is below the signal input range, "OFL1": the Net weight is over the limit, "OFL3": the GROSS weight is over the limit 1, 3, 6, 13 or 25 times/sec. SP1/ SP2/ SP3/ COMPLETE/ TARE ON/NET/ OUT1/ OUT2			AC input cord (nominal rating 125 V) 3 m1 FCN series I/O connector (with cover)1			
	Disalarifa				Load cell input connector1			
	Display frequency				Operating tool1			
0	Status display				Jumper wire2 SD card 1 GByte1			
Setting	Setting method	By operating the membrane keys or through interface			Rubber seal for dust & drop-proof protection1			
	Memory of set value	Default settings: stored in NOV.RAM (non-volatile RAM)				arop-proof protection1		
		Time: backed up by lithium battery		Quick manual1 CC-Link connector (when CC-Link option is selected)1				
		Other setting values: stored in F-RAM (non-volatile RAM)			D/A converter connector (when DAC option is selected)1			
		Je Settings can be protected with the software LOCK		BCD output connector (when BCO option is selected)1				
	Setting item	Under / Final			inector (
		- Comparison inhibit time 1 / Judging time / Complete output time /	Optional	CAAC2P-B3:		AC input cord 3 m (Same as the attachment)		
		Compensation feeding time / Number of times for AZ / Number of times for judging /	accessori			AC input cord 3 m		
		Auto free fall compensation regulation values / Comparison inhibit time 2 /		CA325AC3P-B3		AC input cord 3 m		
		Preset tare value - Weighing function 1 / Weighing function 2 / Weighing function 3 / Sequence mode /		CAAC3P-CEE7/		AC input cord (voltage resistance: 250 V) 2 m		
		Key invalid-LOCK / Discharging time / Motion detection (Period - Range) /		CA325AC3P-CE	EE7/7-B	, , ,		
		Zero tracking (Period) / Zero tracking (Range)		CN21:		BCD output connector		
		- Balance weight value / Minimum scale division / NET weight over / GROSS weight over/		CN34:		D-sub9p connector for RS-232C		
		DZ limitation value / Display selection / Gravitational acceleration / Sub-display mode / Sub-display selection		CN50:		FCN series I/O connector (with cover)		
		- D/A output mode / D/A zero scale adjustment / D/A full scale adjustment /				(Same as the attachment)		
		RS-232C/RS-485 setting / RS-232C/RS-485 ID / Transmission delay time /		CN55:		FCN series I/O connector (with diagonal cover)		
		CC-Link I/F setting / CC-Link station number setting / Setting LOCK		CN71:		CC-Link connector		
		- Input signal selection 1 / Input signal selection 2 / Input signal selection 3 / Output signal selection 1 / Output signal selection 2 / Output signal selection 3 /		CN72:		Double row connector for CC-Link		
		Output signal selection 4 / Status display selection / Sampling speed		CN78:		Load cell input connector (Same as the attachment)		
		- Total count / SP0 / Total comparison mode / Target total weight (high 4) /		CN86:		3p connector D/A converter		
		Target total weight (under 5) / Total SP1 (high 4) / Total SP1 (under 5)		SD1G:		SD card 1 GByte (Same as the attachment)		
		- SD card command 1 / SD card command 2 / Time and Date / Auto adjustment filter / Digital low pass filter / Moving average filter / Extended function selection 1 /		SD2G:		SD card 2 GByte		
		Extended function selection 2 / Total weight control function		SD16G:		SD card 16 GByte		
		- Average weight value / Maximum weight value / Minimum weight value /		SD32G:		SD card 32 GByte		
		General standard deviation / Sample standard deviation / Number of data / Latest data /	L					
		Maximum-Minimum / Option display - Span calibration / Equivalent span calibration / Equivalent zero calibration /			Stru	cture of product code		
		Linearize calibration 1 / Linearization calibration 2 / Linearization calibration 3 /			Otru			
		Linearization Calibration / Calibration Point Confirmation / Password /	F	C1000 П	1	③ Option interface		
	1	Zero Calibration	1	C1000 L				

Specifications

Please note that there are possibilities of individual differences in a color tone on display devices such as LEDs, fluorescent display tubes and LCDs due to manufacturing process or production lots.

(1		3	Sign	Interface		
		U	Standard	SI/F, SD slot		
 Standard unit 			↓ One optional interface can be added in addition to the standard interface.			
② Interface selection						
Sign	Interface		CCL	CC-Link		
232	RS-232C		DAC	D/A converter (Current output)		
485	RS-485		BCO	BCD output (Sink type)		

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LOADCELL 1294887

(Front) Rubber packing (Side) (Rear) PULS WEIGHING INDIC Ð ۲ 26 2 ଞ ۰<u>/</u> 80 QARD 0 99 137 144 148

UNIPULSE

Unit: mm

68 [±]

Panel cutout size

Panel thickness

1.6 to 3.2 mm

138 ⁺8

External dimension