

Jun. 2021

Obsolete product



Recommended substitute product

Weighing indicator

Network Type Weighing Indicator

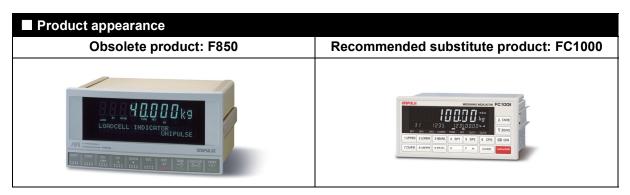
F850

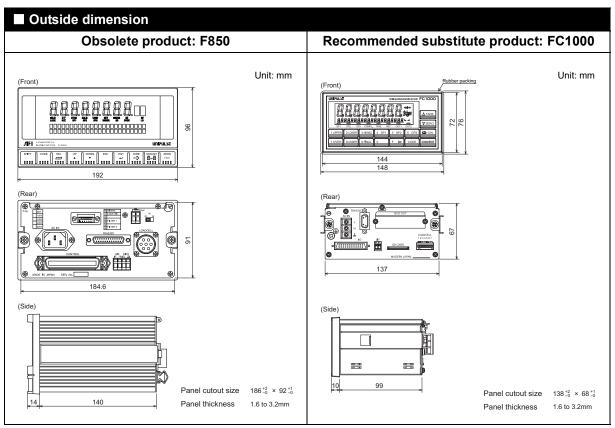
FC1000

- Obsolete date: End of July 2016
- Difference to recommended substitute product

Product appearance	Outside dimension	Mounting dimension	Product performance	Setting method
☆	☆	☆	☆	☆

⊚ : Full compatible, ↑ : Performance improved, ⊙ : Almost no change, ☆ : Large change, — : Not compatible







	ification	Obsolete product: F850	< Differences > Recommended substitute product FC1000	
RoHS2 Dir	rective	Non-compliant	Compliant	
Analog section	Excitation voltage	10V DC ±5%, Output current: within 120mA Remote sense type (Up to 4 350Ω load cells can be connected in parallel)	DC5V±5%, Output current: 90mA Remote sense type (Up to 6 350Ω load cells can be connected in parallel)	
	Signal input range	_	-2.5 to +5.1mV/V	
	Zero adjustment range	0 to approx. 2mV/V Rough adjustment: Digitally controlled by rough adjustment circuit Fine adjustment: Automatic adjustment by digital processing	-2.5 to +2.0mV/V Automatic adjustment by digital processing	
	Gain adjustment range	0.3 to 2.0mV/V Rough adjustment: Digitally controlled by rough adjustment circuit Fine adjustment: Automatic adjustment by digital processing	+0.02 to +3.0mV/V Automatic adjustment by digital processing	
	Min. input sensitivity	0.3μV/count	0.15μV/count	
	Accuracy	Zero drift: within 0.1µV/ ℃ RTI Gain drift: within 15ppm/ ℃ Noise: within 0.1µVp-p RTI	Zero drift: 0.0002%FS/ °C typ. Gain drift: 1ppm/ °C typ.	
	Filter	 Analog filter Bessel low-pass filter (-12dB/oct.) Selectable from 2, 4, 6, 8 Hz Moving average filter Selectable from OFF, 2, 4, 8, 16, 32, 64, 128 times 	- Digital low-pass filter 0.1 to 300.0 Hz (variable) - Moving average filter A/D converter_Speed 1200 times/sec.: OFF, 2 to 512 times A/D converter_Speed 300 times/sec.: 2 to 128 times	
	A/D converter	Speed: 100 times/sec. Resolution: 16bit (binary)	Speed: Selectable from 1200, 300 times/sec. Resolution: 24bit (binary)	
	Min. display resolution	1/10000	—	
	Secondary calibration	Calibration can be carried out without an actual load by connecting a resistor to one of the bridges of a loadcell.	_	
Display section	Display unit	Main display: fluorescent display character height: 17mm, 8 digits	Main display: 7-segment LCD display character height: 14.4mm. 8 digits Sub-display: 7-segment LCD display character height: 4.3mm、20 digits	
	Display frequency	Selectable from 3, 6, 13, 25 times/sec.	Selectable from 1, 3, 6, 13, 25 times/sec.	
	Scale capacity	5 digits	_	
	Min. scale division	1 to 100 selectable	_	
	Over scale display	LOAD: A/D convert input over range OFL1: Net weight over OFL2: Scale capacity plus 9 counts OFL3: Gross weight over	LOAD: A/D converter input over -LOAD: A/D converter minus over OFL1: Net weight over OFL3: Gross weight over	
	Center zero	True zero point (0±1/4 scale) or the center of each value is displayed.	_	
	Status display	HOLD/ ZALM/ ZT/ STAB/ TARE/ NET/ GROSS/ CZ/ LOCK/ NZ/ SP1/ SP2/ SP3/ UNDER/ GO/ OVER/ LO/ HI	SP1/ SP2/ SP3/ COMPLETE/ TARE ON/ NET OUT1/ OUT2	
	Dot matrix display	Messages that prompt operation in setting and calibration, display of setting values of constant feeding, numbers of measurement, accumulated value, error status	_	



	Obsolete product: F850	Recommended substitute product: FC1000
Setting Setting metho section	By operating the membrance keys (up-down method) Also can be setup from RS-232 (option)	By operating the membrane keys or through interface
Memory of set value	Default settings: Stored in NOV.RAM(non-volatile RAM) Other setting values: Stored in C-MOS RAM backed up by lithium battery	Default settings: Stored in NOV.RAM(non-volatile RAM) Time: Backed up by lithium battery Other setting values: Stored in F-RAM (non-volatile RAM)
Protection of s	et Settings can be protected with the LOCK (DIP switch)	Settings can be protected with the software LOCK
Setting item	- CODE NO. (CODE) / FINAL / SP1 / SP2 / Compensation / Under / Over / Auto FF compensation regulation / compensation input timer - Unit display / decimal place / capacity / minimum scale / 1/4 scale display / gravitational acceleration compensation / zero calibration / balance weight / span calibration / display frequency - Clear, command (Digital Tare ON / accumulation clear etc.) - Control timer (start-measure timer / comparison inhibit timer etc.) - Comparison selection (near zero comparison weight /over / under comparison mode etc.) - Control mode (code assign / stable time etc.) - Control sequence (sequence mode / discharge gate control etc.) - Interface setting (RS-232C baud rate / SI/FII ID etc.) - Extended function selection (stable time filter / digital zero regulation etc.)	- Upper limit / Lower limit / Near zero / Set point 1 Set point 2 / Compensation / Over / Under / Finition / Comparison inhibit time 1 / Judging time / Complete output time / Compensation Feeding Time / Number of times for AZ / Number of time for judging / Auto free fall compensation regulation value / Comparison inhibit time 2 / Preset tare value - Weighing function 1 / Weighing function 2 / Weighing function 3 / Sequence mode / Key invalid-LOCK / Discharge time / Motion detection(Period - Range) / Zero tracking (Period / Zero tracking (Range) - Balance weight value / Minimum scale division / NET weight over / GROSS weight over / DZ limitation value / Dispray selection / Gravitationa acceleration / Sub-dispray mode / Sub-display selection - D/A output mode / D/A zero scale adjustment / IA full scale adjustment / RS-232C/RS-485 settin / RS-232C/RS-485 ID / Transmission delay time CC-Link I/F setting / CC-Link station number setting / Setting LOCK - Input selection 1 / Input election 2 / Input election 3 / Output election 1 / Output election 2 / Output election 3 / Output election 4 / Status display election / Sampling speed - Total count / SP0 / Total omparison mode / Target total weight (high 4) / Target total weight (under 5 / Total SP1 (high 4) / Total SP1 (under 5) - 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 / Extended function selection 1 / Extended function selection / Sample standard deviation / Number of data / Latest data / Maxmum weight value / Minimum weight value / General standard deviation / Sample standard deviation / Number of data / Latest data / Maxmum-Minimum / Optio dispray - Span calibration / Equivalent span calibration / Equivalent zero calibration / Linearization calibration / Linearization calibration / Linearization calibration / Linearization calibration / Calibration Point Confirmation / Password / Zero Calibration



Specific	ification < Differences				
		Obsolete product: F850	Recommended substitute product: FC1000		
External signal	Applicable connector	Manufactured by DDK 57-30500 (accessory or an equivalent)	Manufactured by Fujitsu Components connector: FCN-361J024-AU cover: FCN-360C024-B (accessory or an equivalent)		
	External output signal	16 points	12 points		
	External input signal	23 points	8 points		
Interface		<standard> SIF: 2-wire type serial interface SI2: 2-wire high speed bidirection serial interface <option> 232: RS-232C interface</option></standard>	<pre> <standard> SIF: 2-wire type serial interface SD card slot 232 or 485: Select either RS-232C or RS-485 interface <option> BCO: BCD parallel data output interface DAC: D/A converter current output CCL: CC-Link interface Number of option that can be added: 1 (BCO, DAC or CCL)</option></standard></pre>		
General performance	Power supply voltage	AC85 to 110V, 102 to 132V, 170 to 220V, 187 to 242V (Please specify when ordering)	AC100 to 240V (+10% -15%) (free power source)		
	Power consumption	Approx. 15VA	5W		
	Operating conditions	Operating temperature range: -10 to +40 °C Storage temperature range: -40 to +80 °C	Operating temperature range: -10 to +50 °C Storage temperature range: -20 to +60 °C		
	Dimensions	192(W) × 96(H) × 154(D) mm (protruding parts not included)	144(W) × 72(H) × 109(D) mm (protruding parts not included)		
	Panel cutout dimensions	186(+2-0) × 92(+1-0) mm	138(+2-0) × 68(+1-0) mm		
	Weight	Approx. 2.2kg	Approx. 850g		
Attachments (Not including	3 - /		AC input cord (nominal rating 125V) 3m 1 FCN series I/O connector (with cover) 1 Load cell input connector		