FC500-CCL FC500-DAC FC500-EIP FC500-485 FC500-232

DIN RAIL MOUNT WEIGHING INDICATOR

CC-Link EtherNet/IP CE ROHS2

Suitable for many weighing applications such as hopper scale, packing scale, weight level meter, etc....

FC500-CCL	A weighing system can be configured easily using CC-Link network.
FC500-DAC	Current output, corresponding to the indicated value, is available.
FC500-EIP	A weighing system can be configured easily using EtherNet/IP network.
FC400-485	Measured data and results can be collected using RS-485 interface.
FC500-232	Measured data and results can be collected using RS-232C interface.

High sampling rate & resolution

High-Speed A/D conversion and powerful digital processing capability of 1200 times/sec. (Convertible to 300 times/sec.) High display resolution of 1/100000 (max).



Measurement can be performed quickly and precisely due to high speed A/D conversion.

Various interfaces

FC500-CCLEquipped with CC-Link, SI/F, USB interfaceFC500-DACEquipped with D/A converter, SI/F, USB interfaceFC500-EIPEquipped with EtherNet/IP, SI/F, USB interfaceFC500-485Equipped with RS-485, SI/F, USB interfaceFC500-232Equipped with RS-232C, SI/F, USB interface







Application software for USB interface

With communication through USB interface, logging, graph display, setting parameters, and calibration can be done.







Data memory function

Latest 100 data of calibration value and error information with clock time are recorded and can be checked via USB interface.

Basic weighing process control function

Equipped with weighing sequence function to control feeding/discharge gate.

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.

Equivalent input calibration

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

Analog	Excitation voltage	DC 5 V±5% Output current: Within 90 mA	General				
		Ratiometric method	specificati				
		(Up to 6 350 Ω load cells can be connected in parallel)					
	Signal input range	-2.5 to +5.1 mV/V					
	Zero adjustment range	Automatic adjustment by digital processing -0.5 to +2.0 mV/V					
	Span adjustment range	Automatic adjustment by digital processing 0.005 to 3.2 mV/V					
	Linearization function	Up to three point multi-point calibration is possible					
		using linearization function					
	Min. input sensitivity	0.15 µV/count					
	Accuracy	Non-linearity: Within 0.01% FS	Attachme				
		Zero drift: 0.0002% FS/°C typ. * When calibrated by 3 mV/V					
		Gain drift: 1 ppm/°C typ.					
	Filter	Digital low-pass filter 0.1 to 300 Hz					
		Moving average filter OFF, 2 to 512 times	Optional				
	A/D converter	Speed: 1200 times/sec. (Convertible to 300 times/sec.)	accessori				
		Resolution: 24 bit (binary)					
Display	Display unit	Character height 11 mm					
Display	Display and	Numerical display by liquid crystal display module					
	Display value	Up to 6 digite Sign: Minus display on the highest digit					
	Linit selectable	t a ka lb N None					
	Display froquency	Selectable from 1, 2, 6, 12, and 25 times/see	CE markir				
	Status display		CE marki				
	Status display	COMPL/SP1/SP2/SP3/HI/GO/LO/NZ/TARE/NET/HOLD/ZALM/STAB	certificatio				
			* Please no				
External	Innut signal	NIS/NS (FC300-EIF)	as LEDs, 1				
External	Input signal	Selectable/ configurable					
signai	(5)	<no-voltage contact="" input=""></no-voltage>					
		input is ON when shorted to COM terminal by contact (relay,					
		switch, etc.) or non contact (transistor, photocoupier, etc.).					
		<voltage common="" input="" minus="" plus="" snared="">(specifies</voltage>					
		at time of order)					
		Input is ON when a voltage is applied in between to input					
		terminal and COM terminal by contact (relay, switch, etc.) or non					
		contact (transistor, photocoupler, etc.).					
		Rated voltage: DC 27.6 V or less					
		"ON": when the voltage is above DC 9 V (Load Current: approx.					
		10 mA at DC 24 V), "OFF: " below DC 3 V.					
	Output signal	Selectable/ configurable					
	(5)	PhotoMOS relay output (common for sink and source type)					
		Vceo = 30 V, Ic = 50 mA					
Interface	CC-Link interface (FC500-CCL)						
	D/A converter (Current output) (FC500-DAC)						
	EtherNet/IP interface (FC500-EIP)						
	RS-485 interface (Selectable from Modbus-RTU or UNI-Format) (FC500-485)						
	RS-232C interface (Selectable from Modbus-RTU or UNI-Format) (FC500-232)						
	SI/F 2-wire type serial i	nterface					
	USB interface						
		Extornal a	limonsion				

Input conversion value display

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.

Multipoint calibration (linearization)

Three additional points can be defined in the middle between zero and span for better linearity. Eventhough the scale has poor linearity, it can be corrected to be a highly accurate scale.



General	Power supply voltage		DC 24 V (±15%)		
specification	Power consumption		6 W typ. (FC500-DAC, FC500-EIP)		
			5 W typ. (FC500-CCL)		
			4 W typ. (FC500-485, FC500-232)		
	Operating	conditions	Operation temperature: -10 to +50°C		
			Storage temperature: -20 to +85°C		
			Humidity: 85% RH or less (non-condensing)		
	Dimension		65(W) × 94(H) × 108(D) mm (Not including projections)		
	Weight		Approx. 370g		
Attachments	Operation manual1 Mini driver1				
	Jumper wir	e			
	Power con	nector	1		
	Interface c	onnector(FC	C500-CCL, FC500-DAC, FC500-485)1		
Optional	CN74:	CC-Link c	onnector (Same as the attachment)		
accessories	CN75:	CC-Link c	onnector (Y type branch connector)		
	CN76:	CC-Link c	onnector (Terminator connector)		
	CN86:	3 p conne	ctor D/A converter (Same as the attachment)		
	CN7B:	Power cor	nnector (Same as the attachment)		
	CN7D:	I/O conne	ctor (Same as the attachment)		
	CN7C:	RS-485 co	onnecter (Same as the attachment)		
CE marking	EMC directive EN61326-1				
certification					
			A STATE OF THE STA		

as LEDs, fluorescent display tubes and LCDs due to manufacturing process or production lots.





①Standard unit

Specifications

Interface

Model	Interface	
CCL	CC-Link, SI/F, USB	
DAC	D/A converter (Current output), SI/F, USB	
EIP	EtherNet/IP, SI/F, USB	
485	RS-485 (Selectable from Modbus-RTU or UNI-Format), SI/F, USB	
232	RS-232C (Selectable from Modbus-RTU or UNI-Format), SI/F, USB	
③Input signal		

Sign Input type

Standard No-voltage contact input

DCI Voltage input

■ FC500-CCL













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FC500-EIP



FC500-232

FC500-DAC



Unit: mm

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