FC400-CCL-F



DIN-RAIL MOUNT DIGITAL INDICATOR

Applicable from fast response measurement to multi-weighing with high accuracy!

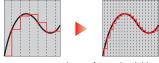
FC400-CCL-FA A measurement system can be configured easily using CC-Link network. FC400-DAC-FA Either voltage or current output, corresponding to the indicated value, is available. FC400-EIP-FA A measurement system can be configured easily using EtherNet/IP network. FC400-ECT-FA A measurement system can be configured easily using EtherCAT network. FC400-232-FA Measured data and results can be collected using RS-232C network.

CC-Link Ether**CAT** EtherNet/IP (CROHS2

High sampling rate & resolution

High-Speed A/D conversion and powerful digital processing capability of 2400 times/sec.

High display resolution of 1/100000 (max).



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

Application software for USB interface

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

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High performance filter & Auto filter adjustment

With combination of low pass filter (0.1 to 600 Hz) which corresponds to various vibration and moving average filter (OFF, 2 to 999) that is effective for periodic vibration, automatic searching for optimal value with accuracy and stability can be achieved.

(You can manually adjust settings too)



Compact size

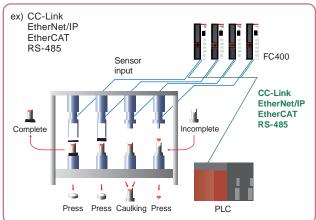
It can be fit into a limited space! Light weight & compact body for 35 mm DIN rail mount.

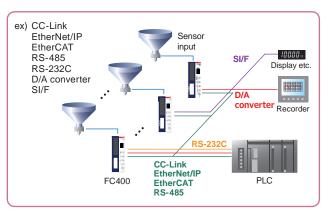


Various interfaces

FC400-DAC-FA FC400-EIP-FA FC400-ECT-FA FC400-232-FA

FC400-CCL-FA Equipped with CC-Link, SI/F, USB interface Equipped with D/A converter, RS-485, USB interface Equipped with EtherNet/IP and USB interface Equipped with EtherCAT and USB interface Equipped with RS-232C, SI/F, USB interface







Digital peak & bottom hold, Hi & Lo function

Quickly detect high speed changes & make OK / NOK judgement

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		
		DC 2.5 V±5% Output current: Within 45 mA		
		(depending on settings)		
		Ratiometric method		
		(Up to 6 350 load cells can be connected in parallel)		
	Signal input range	-3.9 to +3.9 mV/V		
	Zero adjustment range	Automatic adjustment by digital processing -3.0 to +3.0 mV/V		
	Span adjustment range	Automatic adjustment by digital processing 0.01 to 3.8 mV/V		
	Min. input sensitivity	0.15 µV/count		
	Accuracy	Non-linearity: Within 0.01% FS		
		Zero drift: 0.0002% FS/°C typ. * When calibrated by 3 mV/V with 5 V		
		Gain drift: 1 ppm/°C typ. of the excitation voltage		
	Filter	Digital low-pass filter: 0.1 to 600 Hz		
		Moving average filter: OFF, 2 to 999 times		
	A/D converter	Speed: 2400 times/sec.		
		Resolution: 24 bit (binary)		
Display	Display unit	Character height: 8 mm		
		Numerical display by 7-segment green LED		
	Display value	Up to 6 digits		
	Display frequency	Selectable from 1, 3, 6, 13, 25 times/sec.		
	Status display	RUN, SD, RD, ERR (FC400-CCL-FA)		
		MS, NS (FC400-EIP-FA)		
		RUN, ERR (FC400-ECT-FA)		
Hold		Sample, Peak, Bottom, Peak&Bottom, Average		
External	Output signal	Transistor's open collector output		
signal	(5)	Vceo = 30 V, Ic = 50 mA		
	Input signal	Selectable/configurable		
	(3)	Input is ON when shorted to COM terminal by contact (relay		
		switch, etc.) or non contact (transistor, open collector, etc.).		
		* DC 24 V external power supply is required.		
Interface	CC-Link interface (FC40	00-CCL-FA)		
	D/A converter interface (Voltage and current output) (FC400-DAC-FA)			
	EtherNet/IP interface (FC400-EIP-FA)			
	EtherCAT interface (FC400-ECT-FA)			
	RS-232C interface (Sele	ectable from Modbus-RTU or UNI-Format) (FC400-232-FA)		
	RS-485 interface (Selec	table from Modbus-RTU or UNI-Format) (FC400-DAC-FA)		
	SI/F 2-wire type serial in	terface (FC400-CCL-FA, FC400-232-FA)		
	USB interface			

Inpu	t conversion	val	ue d	lisp	lay
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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.

6-digit display

24 bit A/D converter enables 6-digit display

General	Daviana		DO 041/(/:45%)		
oonorai	Power supply	<u> </u>	DC 24 V (±15%)		
specification	Power consumption		3 W typ. (FC400-DAC-FA, FC400-232-FA)		
			4 W typ. (FC400-CCL-FA, FC400-EIP-FA, FC400-ECT-FA)		
	Operating conditions		Operating temperature range: -10 to +50°C		
			Storage temperature range: -20 to +85°C		
			Humidity: 85% RH or less (non-condensing)		
	Dimensions		34(W) × 88(H) × 91(D) mm (Projections excluded)		
	Weight		Approx. 210 g (FC400-CCL-FA, FC400-DAC-FA)		
			Approx. 230 g (FC400-EIP-FA, FC400-ECT-FA)		
			Approx. 220 g (FC400-232-FA)		
Attachment	Quick manual	ual2			
	Jumper wire	.2			
	Mini driver1 CC-Link connector (FC400-CCL-FA)1				
	Various I/O co	onnector	(FC400-CCL-FA, FC400-EIP-FA, FC400-ECT-FA)2		
			(FC400-DAC-FA, FC400-232-FA)3		
Accessories	CA81-USB: r	niniUSB	-computer USB cable 1.8 m		
	CN74: 0	CC-Link	connector (Same accessory as the attached one)		
	CN75: 0	CC-Link	connector (Y type branch connector)		
	CN76: 0	CC-Link	connector (Terminator connector)		
	CN85: 1	3 p conr	nector for power source/sensor/RS-485		
	(Same ac	ccessory as the attached one)		
	CN86: 3	p conne	ector D/A converter (Common with RS-232C connector)		
	(Same ac	ccessory as the attached one)		
	CN87: 1	0 p conr	nector for external I/O (Same accessory as the attached one)		
CE marking	EMC directive	EN6132	26-1		
certification					

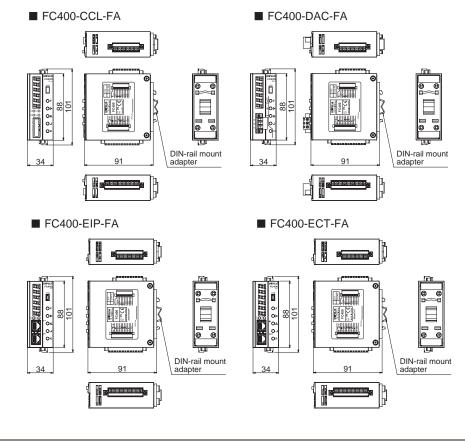
FC400-ECT-FA is Free Run mode.
Please note that there are possibilities of individual differences in a color tone on display devices such as LEDs, fluorescent display tubes and LCDs due to manufacturing process or production lots.

Structure of product code

Model	Interface
FC400-CCL-FA	CC-Link, SI/F, USB
FC400-DAC-FA	D/A converter (Voltage and current output), RS-485, USB
FC400-EIP-FA	EtherNet/IP, USB
FC400-ECT-FA	EtherCAT, USB
FC400-232-FA	RS-232C, SI/F, USB

External dimension

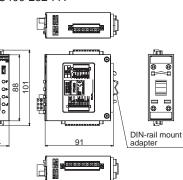
Specifications





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