

# F331 DIN96×48 SIZE DIGITAL INDICATOR

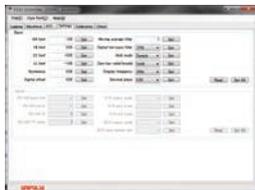


Setting and controlling can be done by a PC

● When installing

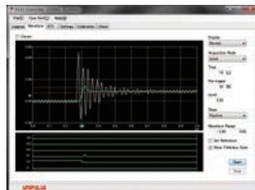
You can do initial setting and calibration. Installation task is easy because you can do it with confirming waveform data. PC is not required after operation is started.

<Initial setting and calibrations>



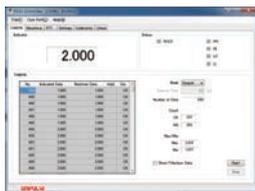
You can do the read + write of the setting values and calibration.

<Check by waveform>



It displays input signal in waveform. You can see output timing of upper/lower limit comparison and hold at a glance. Saving of waveform data is also possible.

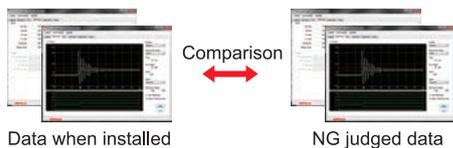
● When continuous control is required for e.g. long term test  
When it is required, you can read and record measured value in real time by connecting a PC all the time.



It records measured value and status (Upper/Lower limit, Hold) for up to 10000 times. You can check judgment result by the OK/NG counting function.

● If result is judged as NG(Not good)

You can pursue the cause by comparing parameter set and waveform data of NG result with the data of when it is installed.



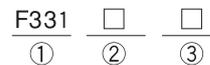
Data when installed

NG judged data

Specifications

ANALOG	Sensor excitation voltage	DC 2.5V±10% Output current within 30mA • • • Standard spec. DC 5V±10% Output current within 30mA (Please specify when ordering.)	
	Signal input range	-3.0 to 3.0mV/V	
	Accuracy	Non-linearity	Within 0.02%FS (at 3mV/V input)
		Zero drift	Within 0.5µV/°C
		Gain drift	Within 0.01%/°C
A/D converter	Rate	300 times /sec.	
	Resolution	24 bit	
HOLD FUNC.	Sample, Peak, Bottom, P-P		
DISPLAY	Display	Character height 14.2mm Numerical display (4-digits), by 7-segment red LED	
	Indicated value	Numeric 4-digits -9999 to 9999 (Minus is a most significant digit. It display at the status lamp.)	
	Decimal point	The display position is selectable. 8.888, 88.88, 888.8, 8888	
	Display items	Status display 3 φ red LED ×2 (MINUS, HOLD) 3 φ green LED ×1 (OK)	
	Display frequency	5, 10, 20 times/sec. selectable	
EXT. SIGNAL	Comparison output (2 points), Hold/judgment signal input, Digital zero signal input		
INTERFACE	Standard	USB interface Communication standard Compliant with USB Ver.2.0 Communication speed Full speed (12Mbps) Class Communication device class OS Windows7 Virtual COM port Set values can be read and written by specific PC software. Connector mini-B TYPE	
	Option	BCO : BCD parallel data output interface (sink type) DAI : D/A converter (current output) 485 : RS-485 communication interface (Select from Modbus-RTU and original format) 232 : RS-232C communication interface (Only one option can be installed)	
GENERAL SPECIFICATIONS	Power voltage	DC24V (±15%)	
	Power consumption	2W typ	
	Inrush current	0.7A, 18msec : DC24V average load condition (cold start at room temperature)	
	Operation conditions	Temperature: Operation	-10 to +40°C
		Storage	-40 to +80°C
Dimensions	96W×48H×132.5D (mm) (not including protrusions)		
Weight	Approx. 550g		
ATTACHMENTS	Quick manual×1, BCD output connector×1 (When BCD output option is selected), Short bar×1 (When RS-485 option is selected)		
CE MARKING CERTIFICATION	EMC Directive EN61326-1		

Structure of product code



① Standard unit

② Excitation voltage

Sign	Excitation voltage
Standard	DC2.5V
DC5V	DC5V

③ Interface

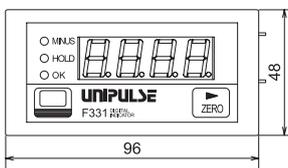
Sign	Interface
Standard	USB

↓ One optional interface can be added in addition the standard interface.

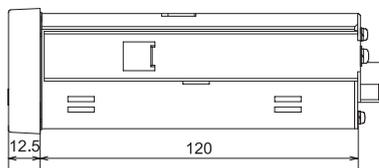
BCO	BCD output(Sink type)
DAI	D/A converter(Current output)
485	RS-485 communication interface
232	RS-232C communication interface

External dimension

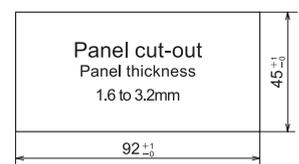
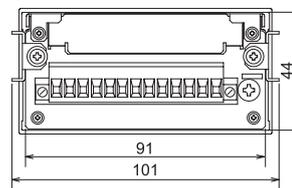
(Front View)



(Side View)



(Rear View)



Unit: mm