F331

DIN96×48 SIZE DIGITAL INDICATOR

DIN 96×48 RoHS2

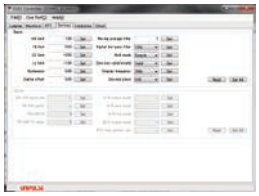


Setting and controlling can be done by a PC

● When installing

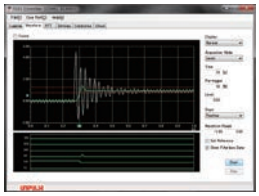
You can do initial setting and calibration. Installation task is easy because you can do it with confirming waveform data. PC is not required after operation is started.

<Initial setting and calibrations>



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

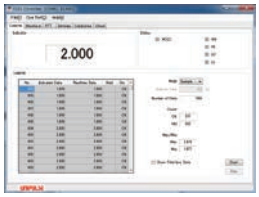
<Check by waveform>



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

Comparison



NG judged data

Specifications

Analog	Sensor excitation voltage	DC 2.5 V±10% Output current: Within 30 mA (Standard spec.) DC 5 V±10% Output current: Within 30 mA (Please specify when ordering.)	
	Signal input range	-3.0 to +3.0 mV/V	
	Accuracy	Non-linearity Zero drift Gain drift	Within 0.02% FS (at 3 mV/V input) Within 0.5 μV/℃ RTI Within 0.01%/℃
	A/D converter	Rate Resolution	300 times/sec. 24 bit (binary)
Hold function	Sample, Peak, Bottom, P-P		
Display	Display	Character height: 14.2 mm Numerical display (4-digit), by 7-segment red LED	
	Indicated value	Numeric 4-digit -9999 to +9999 (Minus is a most significant digit. It display at the status lamp.)	
	Decimal point	The display position is selectable. 0.000, 00.00, 000.0, 0000	
	Display items	Status display	Red LED×2 (MINUS, HOLD) Green LED×1 (OK)
	Display frequency	Selectable from 5, 10, and 20 times/sec.	
External signal	Comparison output (2 points), Hold/judgment signal input, Digital zero signal input		
Interface	Standard	USB interface Communication standard Communication speed Class OS Virtual COM port Connector	 Compliant with USB Ver.2.0 Full speed (12 Mbps) Communication device class Windows7/10/11 Set values can be read and written by specific PC software. Bmini 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: S-232C communication interface * Only one option can be installed	
General specifications	Power voltage	DC 24 V (±15%)	
	Power consumption	2 W typ.	
	Inrush current	0.7 A, 18 msec: DC 24 V average load condition (cold start at room temperature)	
	Operating conditions	Operation temperature: Storage temperature: Humidity:	-10 to +40℃ -40 to +80℃ 85% RH or less (non-condensing)
	Dimension	96(W) × 48(H) × 132.5(D) mm (Not including projections)	
	Weight	Approx. 550 g	
Attachments	Quick manual ····1, Signal input/output terminal block (Already mounted on the main unit) ····1, BCD output connector (When BCD output option is selected) ····1, Short bar (When RS-485 option is selected) ····1		
Optional accessories	CN51: BCD output connector CN88: Signal input/output terminal block (Same as the attachment)		

* 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

F331 □ □
① ② ③

① Standard unit

② Excitation voltage

Sign	Excitation voltage
Standard	DC 2.5 V
DC5V	DC 5 V

③ Interface

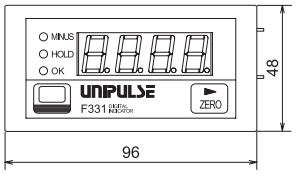
Sign	Interface
Standard	USB

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

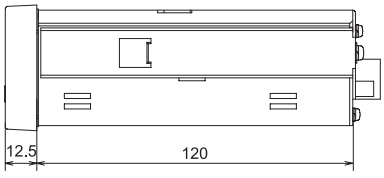
BCO	BCD output (Sink type)
DAI	D/A converter (Current output)
485	RS-485 communication interface
232	RS-232C communication interface

External dimension

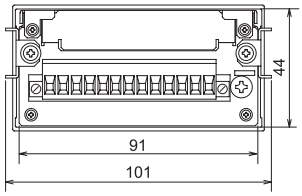
(Front)

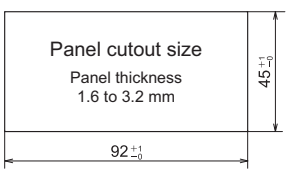


(Side)



(Rear)





Unit: mm