F350

2 CHANNEL INPUT TYPE DIN96□ SIZE DIGITAL INDICATOR

CE DIN96 RoHS2

● 3000 times/sec. high-speed processing
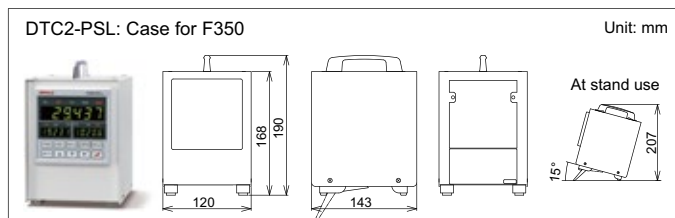(switchable to 300 times/sec.)

2 ch inputs

Calculation and judgment outputs can be made for 2 ch input values of strain gauge type sensors. Calculated value is displayed on the main display, and ch1 and ch2 input values are displayed on the sub display.
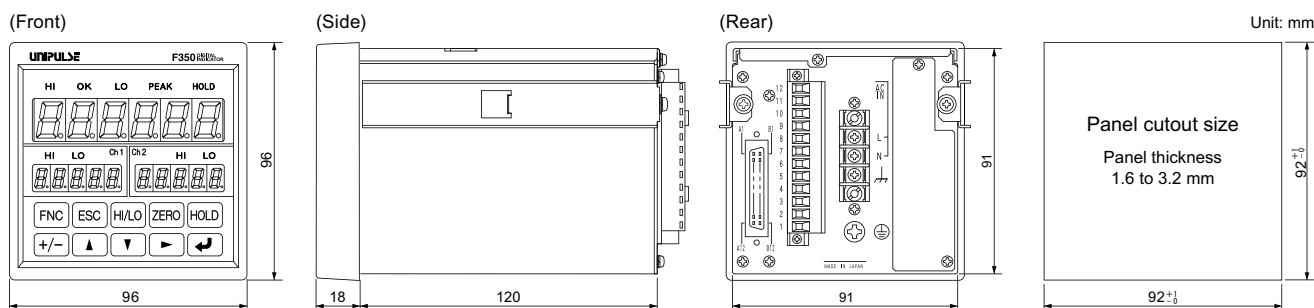
Calculation functions

ch1+ch2, ch1−ch2, I ch1−ch2 I, High select, Low select

● Hold function
F350 is equipped with hold functions to the calculated values (Sample, Peak, Bottom, Average).

● High / Low limit comparison function
The High/Low comparison function comes with hysteresis capability which prevents chattering and quickly generates an accurate comparison output.

● Equivalent input calibration function
Calibration can be carried out by only inputting the sensor's rated output without using the actual load.

● Analog monitor output
Voltage output proportionate to the input signal makes recording on recorder convenient., there are outputs for each channels.

Specifications

Analog	Number of sensor inputs	2 inputs (strain gauge input)
	Excitation voltage	DC 10 V, 2.5 V±5% (depending on settings)
		Output current: Within 60 mA (2 channels total)
	Signal input range*1	−3.0 to +3.0 mV/V
	Accuracy*1	Non-linearity: Within 0.02% FS±1 digit (at 3.0 mV/V input)
		Zero drift: Within 0.5 μV/℃ RTI Gain drift: Within 0.01%/℃
	Analog filter*1	Low pass filter (-6 dB/oct.) Selectable from 3 Hz, 30 Hz, 300 Hz, 1 kHz
	A/D converter*1	Speed: Selectable from 3000 times/sec. and 300 times/sec.
		Resolution: 24 bit (binary) Approx. 1/10000 for 1 mV/V
	Analog monitor output*1	Output level: Approx. 2 V per 1 mV/V strain gauge input
		Load resistance: 2 KΩ or more
Display	Display unit	Main display: Character height 14.6 mm
		Numerical display by 7-segment green LED (6-digit)
		Sub display: Character height 8 mm
		Numerical display by 7-segment green LED (5-digit)
	Indicated value	Main display: 5-digit, ±8.8.8.8.8 -99999 to +99999
		Signs: Minus sign on most significant digit
		Sub display: 5-digit, ±8.8.8.8.8 -19999 to +19999
		Signs: Minus sign on most significant digit
	Display frequency	Selectable from 3, 6, 13 and 25 times/sec.
	Status display	HI/ OK/ LO/ PEAK/ HOLD/ HI(ch1)/ LO(ch1)/ HI(ch2)/ LO(ch2)
Hold		Sample, Peak, Bottom, Average
		Hold section setting (All section・External signal・External signal+Time)
External signal		External output signal (11)
		HI/LO limit comparison (HI(cal.) ・OK(cal.) ・LO(cal.) ・HI(ch1) ・LO(ch1) ・HI(ch2) ・LO(ch2)) /
		alarm(ch1) / alarm(ch2) / hold complete / RUN
		Open collector output circuit (sink type) Vceo = 30 V (max) Ic = 30 mA (max)
		External input signal (4)
		hold section control / hold release / digital zero 1 / digital zero 2
		Dry contact input circuit (minus common type) Ic = 10 mA or less
Interface		SIF: 2-wire type serial interface DAV: D/A converter voltage output (Option)
		BCO: BCD parallel data output interface (Option) DAI: D/A converter current output (Option)
		D3V: D/A converter voltage output(3ch) (Option) 232: RS-232C communication interface (Option)
		*Only one option can be installed
General specifications	Power supply voltage	AC 100 to 240 V +10%-15% (free power source 50/60 Hz)
	Power consumption	6 W typ.
	Operating conditions	Operation temperature: -10 to +40℃
		Storage temperature: -40 to +80℃
		Humidity: 85% RH or less (non-condensing)
	Dimension	96(W) × 96(H) × 138(D) mm (Not including projections)
	Weight	Approx. 1.0 kg
Attachments		AC input cord (Nominal rating 125 V) 3 m×1 BCD output connector×1
		AC input cord converter plug×1 (when BCD output option is selected)
		FCN series I/O connector (with cover)×1 Operating tool ×1
		Ferrite core×2 (when D/A converter (3 ch) option is selected)
		Operation manual×1 Mini driver ×1
		Analog I/O connector terminal block×1 (when D/A converter option is selected)
		(Already mounted on the main unit)
Optional accessories		CA372-I/O: Cable with FCN connector at one-end 3 m
		CA325AC3P-B3: AC input cord 3 m (Same as the attachment)
		CA325AC3P-CEE7/7-B2: AC input cord (Voltage resistance: 250 V) 2 m
		CN3P-2P: 3P-2P converter plug for AC input cord (Same as the attachment)
		CN34: D-Sub9p connector for RS-232C
		CN50: FCN series I/O connector (with cover)(Same as the attachment)
		CN51: BCD output connector
		CN55: FCN series I/O connector (with diagonal cover)
		CN73: D/A converter (3 ch) connector
		CN81: Analog I/O connector terminal block (Same as the attachment)
		DTC2-PSL: Case for F350
		GMP96×96: Rubber packing
		TSU01: DC Lightning surge unit
CE marking certification	EMC Directive	EN61326-1
	Safety Standard	EN61010-1 EN62311

*1 As for each input, it is common.

* 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

F350 □
①   ②
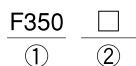
① Standard unit

② Interface

Sign	Interface
Standard	SI/F

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

BCO	BCD output (Sink type)
D3V	D/A converter (Voltage output) (3 ch)
DAV	D/A converter (Voltage output)
DAI	D/A converter (Current output)
232	RS-232C communication interface

DTC2-PSL: Case for F350

Unit: mm

At stand use

168 / 190
120
143
15°
207

External dimension

Unit: mm

(Front)

96
96

(Side)

18
120

(Rear)

91
91

Panel cutout size
Panel thickness
1.6 to 3.2 mm

92 +1,0
92 +1,0

UNIPULSE