

# F350

## 2 CHANNEL INPUT TYPE DIN96<sup>□</sup> SIZE DIGITAL INDICATOR



- 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, | ch1-ch2 |, 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.

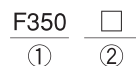
### Specifications

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/°C RTI Gain drift: Within 0.01%/°C
	Analog filter*1	Low pass filter (-6 dB/oct.) Selectable from 3, 30, 300, 1k Hz
	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) Vce0 = 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)
General specifications	D3V: D/A converter voltage output(3ch) (Option)	232: RS-232C communication interface (Option)
	Only one option can be installed	
	Power supply voltage	AC 100 to 240 V +10%-15% (free power source 50/60 Hz)
	Power consumption	6 W typ.
	Operation condition	Operation temperature: -10 to +40°C Storage temperature: -40 to +80°C Humidity: 85% RH or less (non-condensing)
Dimension	Weight	96(W) × 96(H) × 138(D) mm (not including protrusions)
		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)
Optional accessories	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)
	(Same accessory as the attached one)	
	CA372-I/O:	Cable with FCN connector at one-end 3 m
	CA325AC3P-B3:	AC input cord 3 m
	CA325AC3P-CEE7/7-B2:	AC input cord (Voltage resistance: 250 V) 2 m
	CN3P-2P:	3P-2P converter plug for AC input cord
	CN34:	D-Sub9p connector for RS-232C
CN50:	FCN series I/O connector (with cover)	
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 accessory as the attached one)	
DTC2-PSL:	Special case	
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



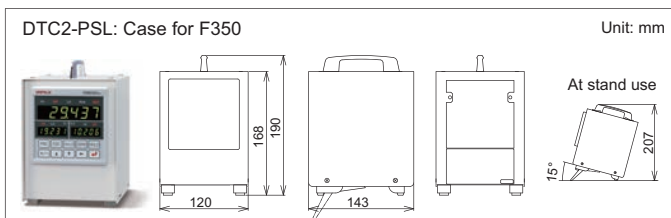
#### ② Interface

Sign	Interface
Standard	SIF

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

#### ① Standard unit

232	RS-232C communication 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)



### External dimension

