

# F350

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



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

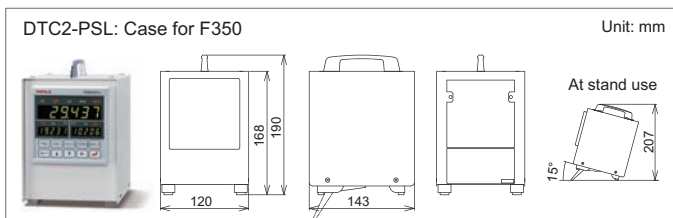
### 2 ch inputs

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.



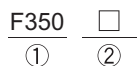
### Specifications

|                          |  |   |
|--------------------------|--|---|
| Analog                   | Number of sensor inputs  | 2 inputs (strain gauge input)   |
|                          | Excitation voltage   | DC 10 V, 2.5 V±5% (depending on settings)<br>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)<br>Zero drift: Within 0.5 μV/°C RT1 Gain drift: Within 0.01%/°C  |
|                          | 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.<br>Resolution: 24 bit (binary) Approx. 1/10000 for 1 mV/V   |
| Display                  | Display unit   | Main display: Character height 15 mm<br>Numerical display by 7-segment green LED (6-digit)<br>Sub display: Character height 8 mm<br>Numerical display by 7-segment green LED (5-digit)  |
|                          | Indicated value  | Main display: 5-digit, -99999 to +99999<br>Signs: Minus sign on most significant digit<br>Sub display: 5-digit, -19999 to +19999<br>Signs: Minus sign on most significant digit   |
|                          | Display frequency  | Selectable from 3, 6, 13 and 25 times/sec.  |
| 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<br>Open collector output circuit (sink type) V <sub>ceo</sub> = 30 V (max) I <sub>c</sub> = 30 mA (max)  |
|                          | External input signal (4)  | hold section control / hold release / digital zero 1 / digital zero 2<br>Dry contact input circuit (minus common type) I <sub>c</sub> = 10 mA or less   |
|                          | Interface  | SIF: 2-wire type serial interface DAV: D/A converter voltage output (Option)<br>BCO: BCD parallel data output interface (Option) DAI: D/A converter current output (Option)<br>D3V: D/A converter voltage output(3ch) (Option) 232: RS-232C communication interface (Option)<br>*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°C<br>Storage temperature: -40 to +80°C<br>Humidity: 85% RH or less (non-condensing)   |
|                          | Dimension  | 96(W) × 96(H) × 138(D) mm (Not including projections)   |
| Attachments              | Weight   | Approx. 1.0 kg  |
|                          | AC input cord (Nominal rating 125 V) 3 m ... 1 BCD output connector ..... 1<br>3P-2P converter plug for AC input cord ..... 1 (when BCD output option is selected)<br>FCN series I/O connector (with cover) ..... 1 Operating tool ..... 1<br>Ferrite core ..... 2 (when D/A converter (3 ch) option is selected)<br>Operation manual ..... 1 Mini driver ..... 1<br>Analog I/O connector terminal block ..... 1 (when D/A converter option is selected)<br>(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



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       |

### External dimension

