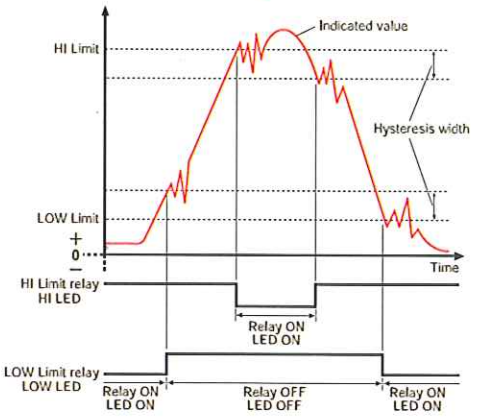
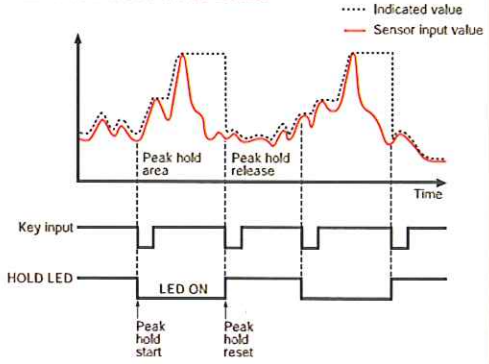
DIGITAL INDICATOR
F340A

- Through its Equivalent Input Calibration Function, calibration can be done by only keying in the sensor rated output without having to use actual load.
- Digital processing is performed within 1/100 second of sensor input signal and it is mounted with high speed A/D converter and high speed CPU output.
- With Peak / Sample Hold Function for high speed operation.
- With HI/LOW Limit Comparison Function with Hysteresis that prevents from chattering and speeds up the correct comparison output.
- Equipped with SI/F output, BCD parallel data output※, RS-232※, D/A converter※ (※: Optional)
- With Digital Zero Function for one-touch zeroing of indicated value.
- Has analog/digital filter that minimizes flickering of indicated value for a stable display.
- Has a DIN96 mini size and is lightweight
- Has a Self-Check Function that detects abnormalities in CPU, ROM and internal circuits for improved reliability.

HI/LOW Limit Relay Time Chart



Peak Hold Time Chart



Please note that specifications or designs shown in this catalog may vary due to our continuous product improvement activities.

[Specifications]

ANALOG

Sensor applied voltage	DC10/2.5V±10%; Output current: within 30mA
Signal input range	-3.0 ~ +3.0 mV/V
Equiv. input calibration range	+0.5 ~ +3.0 mV/V
Equiv. input calibration error	Within 0.1% FS (at 0.5 mV/V input)
Actual load calibration range	+0.5 ~ +3.0 mV/V
Zero adjustment range	-2 ~ +2 mV/V
Min. input sensitivity	1 μV/count (1/10000 guaranteed at 1 mV/V input)
Accuracy	Non-linearity: within 0.02% FS (at 3 mV/V input); Zero drift: within 0.5 μV/℃; Gain drift: within 25 ppm/℃
A/D converter	Speed: 100 times/second; Resolution: 16 bit (binary)
Analog filter	4 / 10 / 100 / 3k Hz
Peak Hold Function (high speed analog hold method)	At 3 mV/V input; Performance response speed: approx. 1 kHz (at sine wave input, analog filter 3 kHz) Accuracy: 0.1% FS or less; Reset time: 50 μs or less
Voltage output	Analog voltage proportional to sensor input; Output level: app. 2V per 1 mV/V input
SI/F output	Output data: Indicated value, status

DISPLAY

Display unit	15 mm font height; 7-segment red LED numericals display (5 digits); 5-digits numerals: ± 8.8.8.8.8.; Indicated value: -19999 ~ 19999; Decimal points: Selectable decimal point displaying position
Display items	Status display: 5 red LED display for HI, OK, LOW, PEAK, HOLD; Display times/second: Selectable at 3,6,13 and 25 times/sec

SETTING

Setting item	Calibration: Zero/Span calibration (Actual load/Equivalent Input Calibration) HI limit, LOW limit, HI/LOW limit comparison mode, hysteresis, digital offset, near zero, digital filter, analog filter, motion detect, zero tracking, hold mode, auto print, hold value print, LOCK, min scale, display frequency, excitation voltage, BCD data update rate, RS-232C, D/A converter zero setting, D/A converter full scale setting

EXTERNAL SIGNAL

HI limit relay output, LOW limit relay output,
(AC spec. : Rating is 250V AC and 0.5A, DC spec. : Rating is 30V DC and 0.5A)
digital zero signal input, hold signal input, analog voltage output

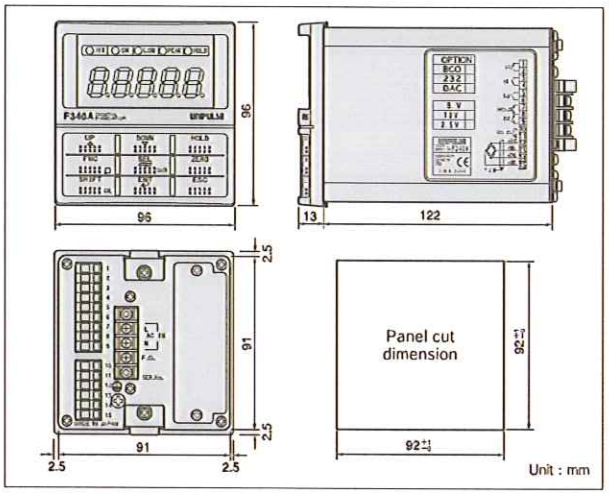
INTERFACE

SI/F output, BCD parallel data output※, RS-232C※, D/A converter※
(※ are optional; only 1 option can be installed)

GENERAL SPECIFICATIONS

Power source voltage	AC: 100~240 V+10%-15% (Flexible power source); 50/60 Hz; DC: 12~24 V (±15%) ※For DC requirement, please specify when ordering.
Power consumption	AC: max 15 W; DC: max 15 W
Rush current (Typ)	AC: 20A 1.0 msec: AC100V average load condition (cold start at room temperature) 40A 1.0 msec: AC200V average load condition (cold start at room temperature) DC: 20A 0.5 msec: DC12V average load condition (cold start at room temperature) 40A 0.5 msec: DC24V average load condition (cold start at room temperature)
Operation conditions	Temperature: Operation temperature range -10~+40℃ Storage temperature range -40~+80℃ Humidity: 85% RH or less (no dew condensation)
External dimension	96(W) x 96 (H) x 135(D) mm (protruding areas are not included); App. 0.9 kg; Panel cut dimension 92 x 92+1-0 mm
CE-marked product	EMC Directive EN61326-1 (CLASS A); Safety Standard EN61010-1

EXTERNAL APPEARANCE



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Rev.1.03 2008 APR.