

Digital Strain Gauge Meter

PSD-02A

Digital strain gauge meter PSD-02A is digital indicator designed for Pureron pressure sensor PC-302, 501 and 601 series. It is small size and lightweight 3-3/4 digit (3999) display equipped with two contact high-low limit comparative output as standard. Isolated circuit design between power and signal enables high noise resistance in case of multiple indicator drive with one power supply.

- ●Ultra small (24mm x 48mm) and lightweight (80g). Comparison setting by two contact high-low limit available
- High brightness 8mm height LED (red)
- Full display capability such as 3,000psi with 3-3/4 digit display
- Floating input isolated from power supply (DC 24V)
- ◆High accuracy output detection by combination with Pureron pressure sensor PC-302/501/601 series

Specification

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- General	SURGINGATION	

General Specification	
Adaptation Sensor	Strain gauge type various transducers
Sensor Applied Voltage	DC2.5V ± 1% 25mA or less
Zero Adjustment Range	\pm 4.0 mV/V (front face)
Span Adjustment Range	Input range of 10 mV/V to 160 mV/V can be displayed in full scale (3000) by rear face multi rotation trimmer (rear face)
Accuracy	0.1% FS ± 1 digit display 3001 or more is the output specification
Reference Voltage for Calibration	10 mV/V (terminal of upper connector is switched)
Display	LED (light-emitting diode) number element, height of character 8mm (red)
Display Range	0 to ± 3999
Sampling Speed	2.5 times/second
Decimal Point	Can be set at arbitrary position by display part stud pin
Zero Point Drift	0.02% FS /°C or less
Gain Drift	0.02% rdg /°C or less
External Hold	Negative signal or contact signal of 0V (short)
Operation Method	Double integral technique
Noise Rejection Ratio	NMR40dB, TYP (50/60Hz)
Operating Temperature & Humidity	0 to 50°C / 35 to 85% RH (no dew condensation)
Power Supply	DC19 to 29V, between power supply and COM, isolation
Power Consumption	Approximately 1W
External Dimensions	48mm (W) x 24mm (H) x 87mm (D)
Weight	Approximately 80g
Accessory	Higher and lower connectors
Withstanding Voltage	Between power supply terminal and COM DC500V, one minute
Insulation Resistance	Between power supply terminal and COM DC500V, $100M\Omega$ or more

■Analog Output

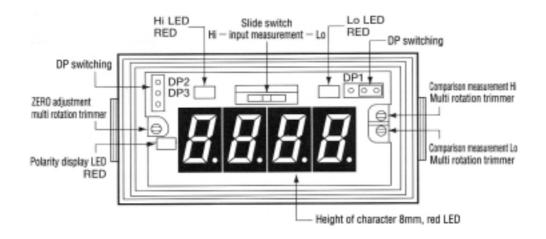
Output Voltage	1mV/digit (3V max)
Accuracy	0.5% FS (23℃±5℃)
Load Resistance	$5k\Omega$ or more

Higher and Lower Limit Two-Stage Comparison (Analog Comparison)

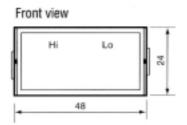
Comparison Setting Range	-1000 to 1500 for both of higher and lower limits, 0 to +3000 (internal switching)
Setting Method	Switched by slide switch on front face. Set by multi rotation trimmer potention meter
	Relay output for both of Hi and Lo
Comparison Output	a contact, b contact, COM contact load capability / DC24V 1A
	AC120V 0.5A
Comparison Operation Condition	At Hi or Lo, red LED lights up
Comparison Condition	Hi: display value ≧ higher limit setting value, Lo: display value ≦ lower limit setting value
	Setting error \pm 3 digit

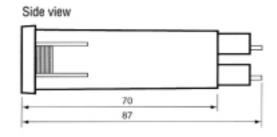
PSD-02A

Front Face

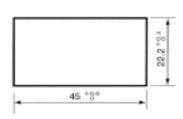


Dimensional Outline Drawings

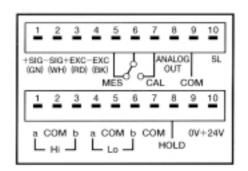




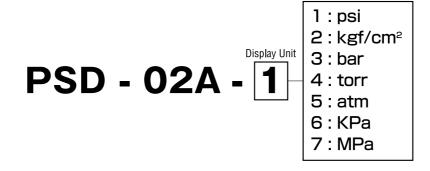
Panel Cut Dimensions



Terminal Connection Diagram



How to Order



Specification is subject to change without notice.

Indicator