

Digital Strain Gauge Meter

- High visuality and brightness large LED (character height approximately 20mm)
- Easy setting by flexible operable jog lever

Specification

Input Specification

- 3					
	Sensor Power Supp l y	Zero Adjustment Range	Span Adjustment Range	Selection Range	Accuracy (23°C \pm 5°C, 35 to 85% RH)
	5V	—1 to +1mV/V	1 to 3mV/V	+20mV/V	\pm (0.1% of FS+2digit)

- **Accuracy when sampling speed is approximately 20 times/second or less
- **%** Sensor power supply depending on parameter

Max. Resolution	0.5 µV/digit (sensor power supply 5V)
Sensor Power Supply	5V±5% (30mA)
Application Sensor	350Ω

■General Specification

Measurement Part

Operation Method	$\Delta\Sigma$ conversion method		
Sampling Speed	Max. approximately 1,000 times/second		
Noise Rejection Ratio	NMR 50dB or more (50/60Hz)		
Display Range	9999		
Display	Red/green 7 segment display (height of character: approximately 20r		
Polarity Display	"—" is automatically displayed when the calculation result is minus		
Over Range Warning	OVER or -OVER for input signal of display range or more		
Zero Display	Leading zero suppress		
Decimal Point	Can be set at arbitrary position		
Operating Temperature & Humidity	0 to 50℃ / 35 to 85% RH (no dew condensation)		
Storage Temperature & Humidity	-10 to 70°C/60% RH or less		
Power Supply Voltage	AC power supply unit: AC 100 to 240V \pm 10% DC power supply unit: DC 12 to 48V \pm 10%		
Power Consumption	Approximately 8VA / approximately 7W (DC power supply) at maximum load (AC power supply)		
External Dimensions	96mm (W) x 48mm (H) x 97.5mm (D)		
Weight	Approximately 450g		
Withstanding (AC) Voltage (DC)	Between power supply terminal / input terminal / each output terminal AC 1500V one minute Between power supply terminal / input terminal / each output terminal DC 500V one minute		
Withstanding Voltage (Common)	Between each terminal of case AC 1500V one minute		
Insulation Resistance	Between terminals above DC 500V 100M Ω or more		
Accessory	Instruction manual		

■Comparison Output Specification Common Specification

Range	Judgment Result	
	Н	
Lower limit judgment value ≦	GO	
Lower limit judgment value >	LO	
Judgment Value Setting Range —9999 to 9999		
Hysteresis 1 to 999 digits can be set for each judgment value		
Comparison Condition Depends on sampling speed		

Relay Contact Output

Quantity of Contact	Relay contact ×3	
Contact Rating	AC 250V 2A, DC 30V 2A (resistance load)	

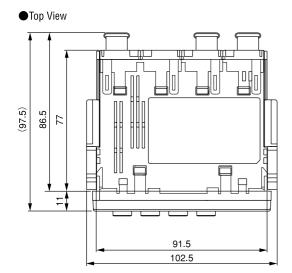
External Control

Start / Hold	Hold by S/H terminal, COM terminal, short circuit or same electric potential, start by release or 5V
Digital Zero	Digital zero function is turned ON by DZ terminal, COM terminal, short circuit or same electric potential
Peak Hold	Peak hold function is turned ON by PH terminal, COM terminal, short circuit or same electric potential
Relay Reset	Relay reset function is turned ON by R.RESET terminal, COM terminal, short circuit or same electric potential
Comparison Pattern Setting	8 patterns can be switched by COM terminal, control between P.SEL 0 and 2

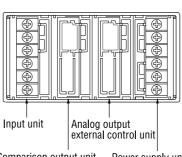
●Analog Output (PWM)

	Туре	Load Resistance	Accuracy (23°C \pm 5°C, 35 to 85% RH)	Ripple	
	0 to 1V	10kΩ or more	\pm (0.5% of FS)	50mVp-p	
Output Specification	0 to 10V				
	1 to 5V				
	4 to 20mA	550Ω or less		25mVp-p	
Conversion Method PWM conversion method					
Resolution	Equivalent to 13 bit				
Scaling Digital scaling Response Speed Approximately 0.5 second (10% → 90%)					

Dimensional Outline Drawings

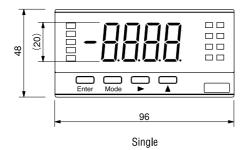


■Rear Face View

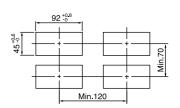


Comparison output unit Power supply unit

Front Face



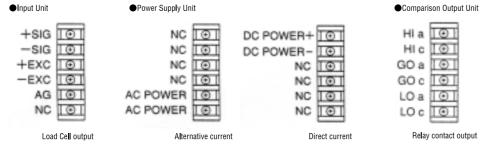
Panel Cutting Hole



Thickness of panel board: 0.8 to 5.0mm

Connection Diagrams

Multiple



HIa⊡ HIc I⊕ GO a 🖭 GO c I ⊕ I LO a 🕦 LO c 🖭 ●Analog Output / External Control Unit HOLD PH DZ Adapted crimping terminal 5.8 or less R.RESET NC NC COM V.OUT Analog output external control

How to Order

Power Supply Display Board Display Unit **PSD - 01B -**

Blank: AC100 to 240V(Standard)

DC: DC 12 to 48V

Blank: Single(Standard)

M: Multiple

1 : psi 2: kgf/cm² 5 : atm 6: KPa 7: MPa

3: bar 4: torr

% Specification is subject to change without notice.

Indicator