

Digital Strain Gauge Meter

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

## **Specification**

# ■Input Specification ●Process Signal Measurement

Range	Measurement Range	Display	Accuracy	Input Impedance	maximum A <b>ll</b> owable <b>i</b> nput
2V	±5V	Offset ±9999	$\pm$ (0.03% of rdg + 2digit)	Appoximately1 $M\Omega$	100V
2A	4 to 20mA	Full scale 0 to ±9999	$\pm$ (0.1% of rdg + 3digit)	Appoximately10Ω	50mA

- % Sensor power supply: DC24V  $\pm 10\%$  25mA % The accuracy is applied when the sampling speed is approximately 20 times/second or less.

### **■**General Specification

#### Measurement Part

Operation Method	$\Delta\Sigma$ conversion method	
Input Circuit	Single-Ended	
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 20mm	
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	
Decimal Point	Can be set at arbitrary position	
Zero Display	Leading zero suppress	
Operating Temperature & Humidity	0 to 50°C / 35 to 85% RH (no dew condensation)	
Storage Temperature & Humidity	—10 to 70℃/60% RH or less	
Power Supply Voltage	AC power supply unit: AC 100 to 240V $\pm$ 10%	
Power Consumption	Approximately 8VA at maximum load (AC power supply)	
External Dimensions	96mm(W)×48mm (H)×97.5mm (D)	
Weight	Approximately 450g	
Withstanding Voltage (AC Power Supply)	Between power supply terminal / input terminal / each output terminal AC 1500V one minute	
Withstanding Voltage (Common)	Between each terminal of case AC 1500V one minute	
Insulation Resistance	Between terminals above DC 500V 100MΩor more	
Accessory	Instruction manual	

# ■Comparison Output Specification ●Common Specification

Rai	Judgment Result		
	Н		
Lower limit judgment valu	GO		
Lower limit judgment value > measurement value		LO	
Judgment Value setting Range			
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 x3	
Contact Rating	AC 250V 2A, DC 30V 2A (resistance load)	

#### External Control

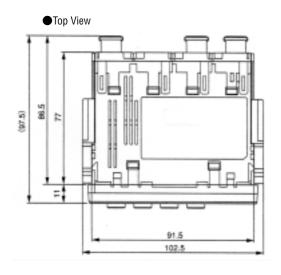
Start / Hold	Hold by S/H terminal, COM terminal, short circuit or same electric potential, start by release or 5V	
Digital Zero	Digital zero function is turned ON by DZ terminal, COM terminal, short circuit or same electric potential	
Peak Hold	Peak hold function is turned ON by PH terminal, COM terminal, 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)

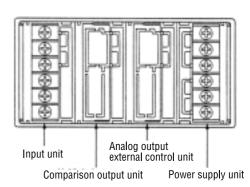
	Type	Load resistance	Accuracy (23°C $\pm$ 5°C, 35 to 85% RH)	Ripple
	0 to 1V	10kΩ or more	$\pm(0.5\%$ of FS)	50mVp-p
Output Specification	0 to 10V			
	1 to 5 V			
	4 to 20mA	550Ω or less		25mVp <b>-</b> p
Conversion Method	PWM conversion method			
Resolution	Equivalent to 13 bit			
Scaling	Digital scaling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

# PSD-01C

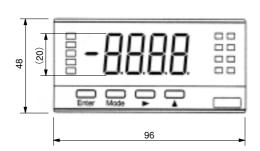
### **Dimensional Outline Drawings**



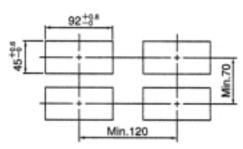
■Rear Face View



●Front Face

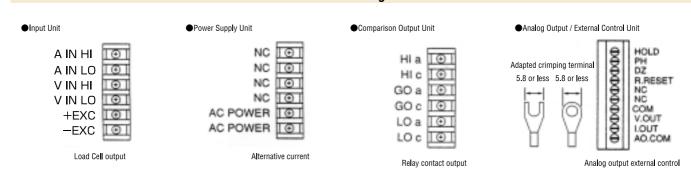


●Panel Cutting Hole

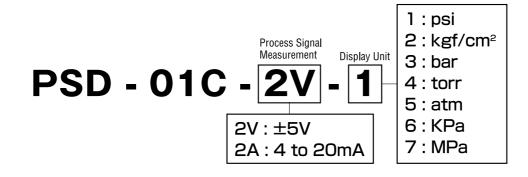


Thickness of panel board: 0.8 to 5.0mm

### **Connection Diagrams**



#### **How to Order**



Specification is subject to change without notice.

Indicator