

FEATURES

- The compact design saves the space
- By VR, any pressure unit can be set to full scale
- With pressure switch function (4 points setting)
- Meets DIN sizes (72 × 72 mm)
- Input signal: 1 ~ 5 V or 4 ~ 20 mA

COMPATIBILITY WITH SENSORS

PZ-200 shall be used with Copal's pressure transducers with Amp. and other sensors whose output signals are DC1~5 V or 4~20 mA.

Caution

Sensor that measures compound pressure can't be used with PZ-200. PZ-30 is suggested as alternative product.

MODEL NUMBER DESIGNATION

PZ-200

STANDARD SPECIFICATIONS

lacktriangle Unless otherwise specified, the specs are defined at an ambient temperature of 25 \pm 5 $^{\circ}$ C and excitation voltage of 12 V DC.

	Item	Model number	PZ-200
General specifications	Operating temp. range °C		0 ~ 50
	Compensated temp. range °C		0 ~ 50
	Operating humidity %RH		35 ~ 85 (No condensation)
	Storage temp. °C		− 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)
	Net weight g		Approx. 150
	Power		Power:12 ~ 24 V DC ± 10 % Consumption current:80 mA maximum
Imput	Input signal		1 ~ 5 V/4 ~ 20 mA (Internal switch provided)
	Input impedance kΩ		120 (1 ~ 5 V Input setting)
	Internal resistance Ω		51 (4 ~ 20 mA Input setting)
	Maximum input voltage V		30
	Maximum input current mA		70
	No. of digits		3 1/2
	Display element		LCD
	Rated display rang	ge	0 ~ 1000
	Display cycle		Approx. 4 times/s
	Display accuracy		± 0.1% Reading ± 2 counts (After calibration)
>	Thermal error	Zero point indication	± 3 counts /10 °C
Display		Full scale indication	± 3 counts /10 °C
	Resolution		1 count
	Zero point variable range		± 200 counts
	Full scale variable range		± 200 ~ 1000 counts
	Decimal point location		10 ² 、10 ¹ 、10 ⁰ (Selected by a panel switch)
	Polarity change		Negative "-" indication (actuated by panel switch)
	Over-range indication		" 1 * * * " when the numder exceeds ± 1999 (* : OFF)
	Pressure setting range		0 ~ 1000
Switch	Number of setting points		1 (LL)、2 (L)、3 (H)、4 (HH)
	Switching capacity		30 V DC、100 mA(NPN open collector)
	Residual voltage		1.2 V DC (at 100 mA of inflow currrent)
	Output status		3 modes (Refer to pressure switch output function)
	Setting method		By setting VR
	Response		Approx. 100 ms
	Analog output		Current output: 4 $^{\sim}$ 20 mA, Accuracy: \pm 0.5 %F.S. (at 25 \pm 5 $^{\circ}$ C), Load: 250 Ω maximum

PRESSURE INDICATORS

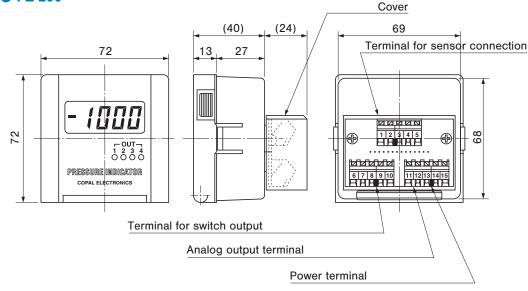
■ ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions	Permissible change	
Vibration	Amplitude 1.5 mm P-P, 10 ~ 55 Hz, 3 directions for 2 hours each (packed)		
Shock	98.1 m/s², 3 directions for 3 times each (packed)	Pressure indication, switch setting and analog output variation: ± 1% F.S., maximum each.	
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 hrs.	maximum caon.	

OUTLINE DIMENSION

Unless otherwise specified, tolerance: ± 0.5 (Unit: mm)

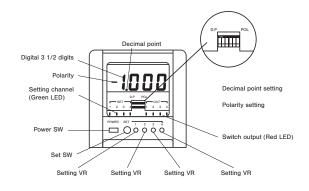




No.	Connection	
1	Sensor signal IN (1 ~ 5 V)	
2	Sensor signal IN (4 ~ 20 mA)	
3	Sensor power out ⊕	
4	Sensor power out (Common)	
5	Common	
6	LL OUT	
7	L OUT	
8	H OUT	
9	HH OUT	
10	Switch out (Common)	
11	Analog output (4 ~ 20 mA)	
12	Analog output (Common)	
13	Common	
14	Power IN B (DC12 ~ 24 V)	
15	Power IN (Common)	

※ Please refer to the page of PG-200 series for panel cut dimension.

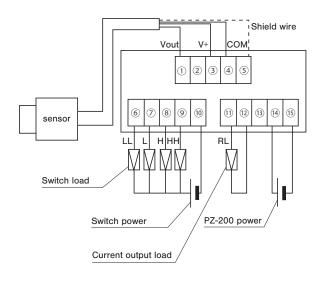
INSIDE OF A PANEL



 $[\]divideontimes$ All the "Common" connections are made inside.

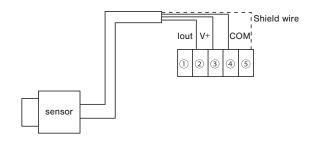
■ CONNECTION OF PRESSURE SENSOR

● Example) 1 ~ 5 V output sensor

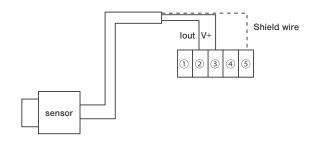


* Shield should not be earthed when sensor is earthed.

■ Example) 4 ~ 20 mA output sensor

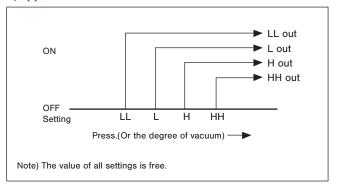


● Example) 4 ~ 20 mA output sensor

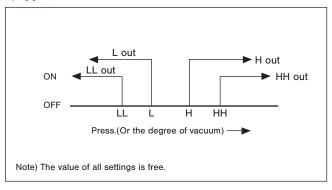


SWITCH OUTPUT SCHEMATICS

a)Upper limit mode



c)Upper and lower limit mode



b)Window mode

