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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



PZ-200



■ 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.

■ MODEL NUMBER DESIGNATION

P Z - 2 0 0

Series name

PZ-200

PRESSURE INDICATORS

STANDARD SPECIFICATIONS

●Unless otherwise specified, the specs are defined at an ambient temperature of 25 ± 5 °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 \pm 10 % Consumption current : 80 mA maximum	
Input	Input signal		1 ~ 5 V/4 ~ 20 mA (Internal switch provided)	
	Input impedance	k Ω	Approx. 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	
Display	No. of digits		3 1/2	
	Display element		LCD	
	Rated display range		0 ~ 1000	
	Display cycle		Approx. 4 times/s	
	Display accuracy		\pm 0.1 % Reading \pm 2 counts (After calibration)	
	Thermal error	Zero point indication		\pm 3 counts/10 °C
		Full scale indication		\pm 3 counts/10 °C
	Resolution		1 count	
	Zero point variable range		\pm 200 counts	
	Full scale variable range		\pm 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 number exceeds \pm 1999 (* : OFF)		
Switch	Pressure setting range		0 ~ 1000	
	Number of setting points		① (LL)、② (L)、③ (H)、④ (HH) (4 output)	
	Switching capacity		30 V DC、100 mA (NPN open collector)	
	Residual voltage		1.2 V DC (at 100 mA of inflow current)	
	Output status		3 modes (Refer to pressure switch output function)	
	Setting method		By setting VR	
	Response		Approx. 100 ms	
Analog output			Current output: 4 ~ 20 mA, Accuracy: \pm 0.5 %F.S. (at 25 ± 5 °C), Load: 250 Ω maximum	

PZ-200

PRESSURE INDICATORS

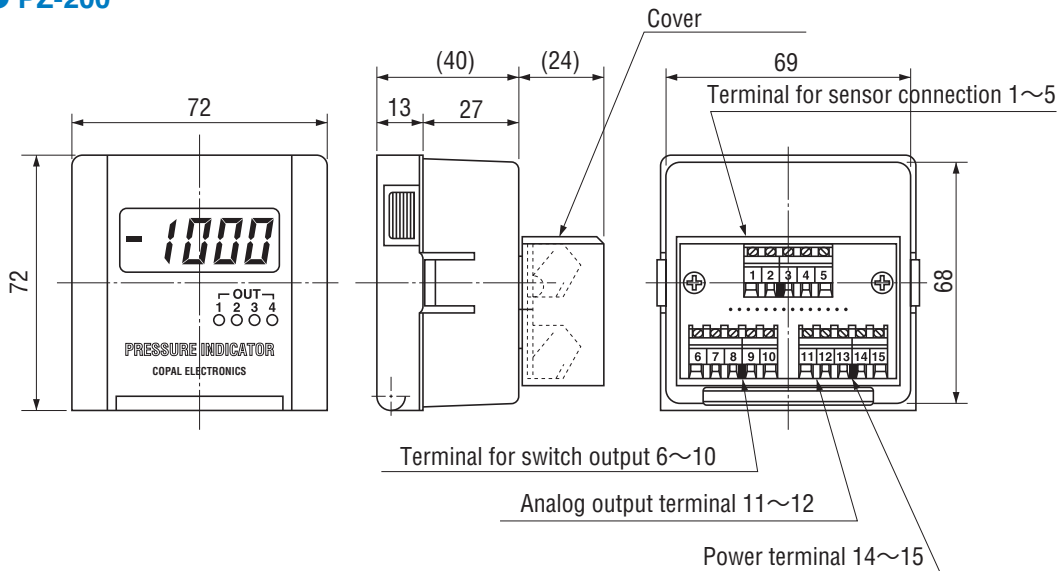
ENVIRONMENTAL CHARACTERISTICS

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

OUTLINE DIMENSION

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

PZ-200

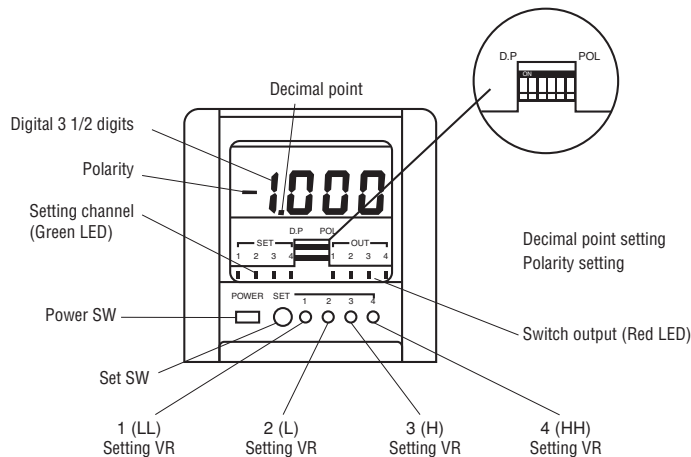


No.	Connection
1	Sensor signal IN (1 ~5 V)
2	Sensor signal IN (4 ~20 mA)
3	Sensor power out (+)
4	Sensor power out (Common)
5	Common
6	LL OUT
7	L OUT
8	H OUT
9	HH OUT
10	Switch out (Common)
11	Analog output (4 ~ 20 mA)
12	Analog output (Common)
13	Common
14	Power IN (+) (DC12 ~ 24 V)
15	Power IN (Common)

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

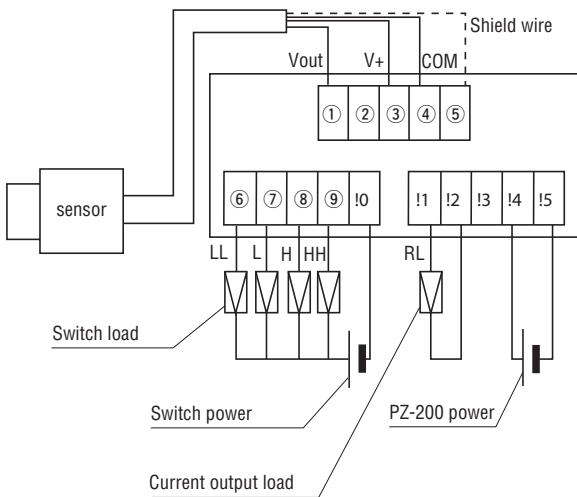
※All the "Common" connections are made inside.

INSIDE OF A PANEL



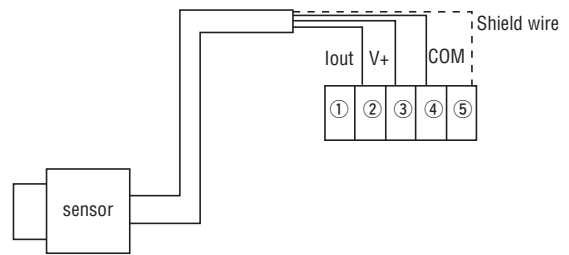
CONNECTION OF PRESSURE SENSOR

● Example) 1 ~ 5 V output sensor

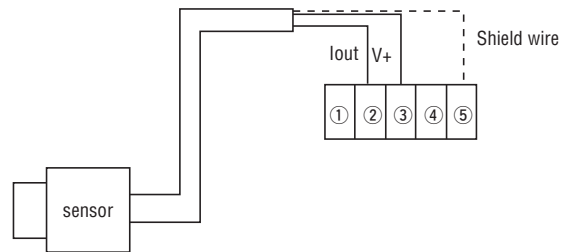


※ Shield should not be earthed when sensor is earthed.

● Example) 4 ~ 20 mA output sensor

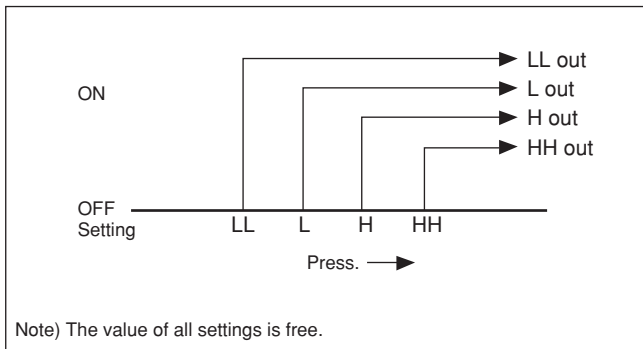


● Example) 4 ~ 20 mA output sensor

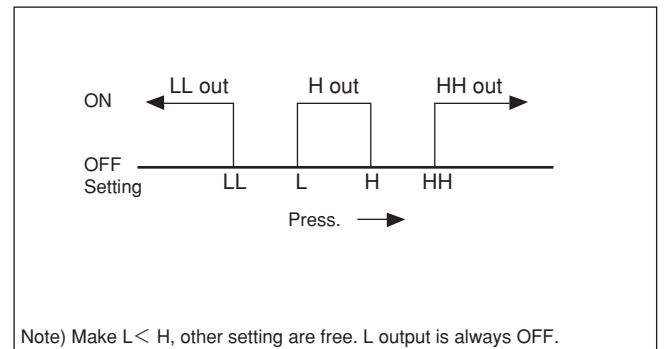


SWITCH OUTPUT SCHEMATICS

a) Upper limit mode



b) Window mode



c) Upper and lower limit mode

