

PS PRESSURE TRANSDUCERS

FEATURE

- Measurement of gauge pressure, Compound pressure or Absolutely pressure.
- Modularity of electrical and hydraulic connections
- Highly resistant to process conditions
- Low cost & high stability

APPLICATION

pneumatic compressors, HVAC, hydraulic systems, pump monitoring, water treatment and control systems



TECHNICAL DATA

- Sensing element: Ceramic sensor with o-ring packing.
- Measurement Range: Compound pressure: -1 ~ 0 to -1 ~ 5bar
Gauge pressure: 0 to 200bar
Absolute pressure: 0~1/~2 bar
- Overload: 2 x measuring range;
- Rupture Pressure: 3 x measuring range
- Output Signal: 2 wired: 4~20mA; 3 wired: 0~10V or 0(1)~5V
- Accuracy: Linearity: $\leq \pm 0.5\%$ FS
Hysteresis: $\leq \pm 0.2\%$ FS
Zero point at voltage output: < 50 mV
 $\leq \pm 0.012\%$ FS/°C
- Zero thermal drift: $\leq 10\%$ of F.S.
- Zero Adjustment: $\leq 10\%$ of F.S.
- Span Adjustment: ≤ 5 msec
- Response Time: ≤ 50 Hz
- Load Cycle: ≤ 50 Hz

Power

- Power Supply: 18 ~ 36 Vdc for 2 wire Loop powered
24 Vdc for 3 wired powered
- Maximum Input Current: ≤ 15 mA
- Load Impedance: $\leq 1000 \Omega$
- Current Consumption: ≤ 20 mA

Environmental

- Operating temperature: Standard: -10°C ~ 70°C
Option: -25°C ~ 100°C
- Operating relative humidity: $\leq 95\%$ non-condensing
- Temperature coefficient: ≤ 100 PPM/°C (0~50 °C)
- Storage temperature: -10~70 °C
- Enclosure: IP65 (DIN connector)
- Vibration resistance: 1.5 mm (10~55 Hz), 20g

Electrical safety

- Dielectric Strength: AC 2.0KV for 1 min
between Output / Metal parts
 $\geq 100M$ ohm
- Insulation: EN50082-1, EN50082-2
- EMC: EN50081-1, EN50081-2

Mechanical

- Materials of Housing: Standard: Stainless Steel 304
Option: Stainless Steel 316

- Materials of Wetted parts: Ceramic with o-ring packing/ Inox 1.4305
- Pressure Connection: Outside thread: NPT 1/4", 3/8", 1/2";
PT 1/4", 3/8", 1/2"; PF(G) 1/4", 3/8", 1/2"
- Electrical Connection: DIN connector 43650-A
- Weight: About 280 g

ASSESSORY

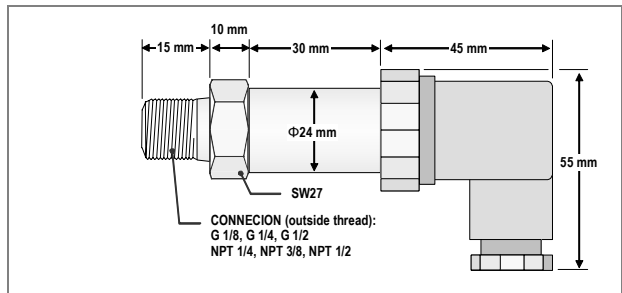
2 WIRED FIELD INDICATOR



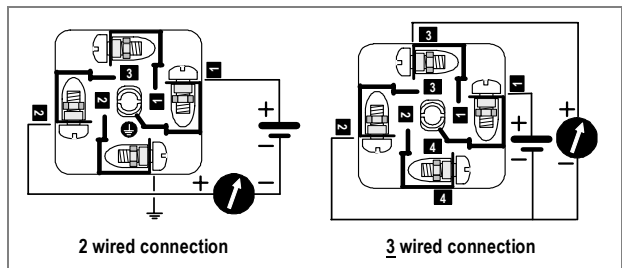
Please refer to the page EP-01 for detail specification.

- Display: 0~9999(Programmable)
- Alarm Output(option): 2 points; Open collect
- Connection: DIN connector 43650-A
- Power Drift: $\leq 4.5V$, 3mA
- FILTER: Model Number: PS FILTER-
Please contact with our sales dep.

DIMENSIONS



CONNECTION



ORDERING INFORMATION

CODE	WETTED PARTS	CODE	RANGE	CODE	RANGE	CODE	OUTPUT	CODE	CONNECT	CODE	MATERIAL O RING
S	Ceramics sensor with O-ring packing	001	0~1 Bar	400	0~400 Bar	3	0~5V(3-wired)	N2	1/4" NPT	1	NBR(standard)
		002	0~2 Bar	V10	-1~0 Bar	4	0~10V(3-wired)	N3	3/8" NPT	2	CR(Neoprene)
		006	0~6 Bar	B15	-1~5 Bar	5	1~5V(3-wired)	N4	1/2" NPT	3	FKM(Viton)
		010	0~10 Bar	A01	Absolutely 0~1 Bar	D	4~20mA(2-wired)	P2	1/4" PT	O	Specify
		016	0~16 Bar		Absolutely 0~2 Bar			P3	3/8" PT		
		020	0~20 Bar	A02	Absolutely 0~2 Bar			P4	1/2" PT		
		040	0~40 Bar					G2	1/4" PF		
		100	0~100 Bar					G3	3/8" PF		
		250	0~250 Bar					G4	1/2" PF		
								O	Specify		

* If the range is over 200bar, It's strong recommend to use diaphragm type(model PU or PD).