

PRESSURE TRANSDUCER

PS

FEATURE

- Measurement of gauge pressure
- Zero adjustment as standard ($\pm 10\%$ of range)
- Modularity of electrical and hydraulic connections with diaphragm available
- Highly resistant to process conditions
- Individual applications due to modular system
- Low cost & high stability



TECHNICAL DATA

- **Measurement Range:** Compound pressure: -1 ~ 0 to -1 ~ 5bar
Gauge: 0 ~ 1 to 0 ~ 600bar
0 ~ 600 / 1000bar with diaphragm
- **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: $< \pm 0.5\%$ FS
Hysteresis: $< \pm 0.2\%$ FS
Zero point at voltage output: < 50 mV
- **Zero thermal drift:** $< \pm 0.012\%$ FS/ $^{\circ}$ C
- **Zero Adjustment:** $< 10\%$ of F.S.
- **Span Adjustment:** $< 10\%$ of F.S.
- **Response Time:** < 5 msec
- **Load Cycle:** < 50 Hz

Power

- **Power Supply:** 8 ~ 32 Vdc for 2 wire Loop powered
24 Vdc for 3 wired powered
- **Maximum Input Current:** < 15 mA
- **Load Impedance:** $< 1000 \Omega$
- **Current Consumption:** < 20 mA

Environmental

- **Operating temperature:** Standard: -10° C ~ 85° C
Option: -25° C ~ 100° C
- **Operating relative humidity:** $< 95\%$ non-condensing
- **Temperature coefficient:** ≤ 100 PPM/ $^{\circ}$ C ($0-50^{\circ}$ C)
- **Storage temperature:** $-10-70^{\circ}$ 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 Input / Output / Power / Case
 $\geq 100M \Omega$
- **Insulation:** $\geq 100M \Omega$
- **EMC:** EN50082-1, EN50082-2
EN50081-1, EN50081-2

Mechanical

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

- **Materials of Wetted parts:** Stainless Steel 316, Ceramic / Inox 1.4305
- **Diaphragm:** Stainless Steel 316; Oil: silicon
- **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

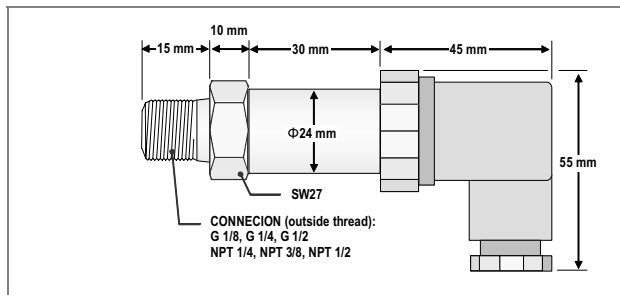
ASSESSORY

2 WIRED FIELD INDICATOR

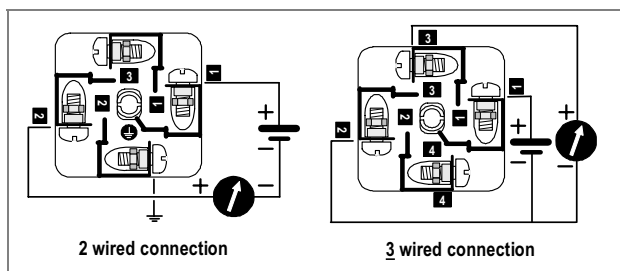
- **Display:** 0~9999(Programmable)
- **Alarm Output(option):** 2 points; Open collect
- **Connection:** DIN connector 43650-A
- **Power Drift:** $\leq 4.5V, 3mA$

FILTER

DIMENSIONS



CONNECTION



ORDER INFORMATION

CODE	WETTED PARTS	CODE	RANGE	CODE	RANGE	CODE	OUTPUT	CODE	CONNECT	CODE	SENSOR SEAL	
S	SS316 with ceramics (600 bar maximum)	001	0~1 Bar	400	0~400 Bar	3	0~5V(3-wired)	N2	1/4" NPT	1	NBR(standard)	
D	SS316 with Diaphragm	002	0~2 Bar	600	0~600 Bar	4	0~10V(3-wired)	N3	3/8" NPT	2	CR(Neoprene)	
		006	0~6 Bar	800	0~800 Bar*	5	1~5V(3-wired)	N4	1/2" NPT	3	FKM(Viton)	
		010	0~10 Bar	A00	0~1000 Bar	D	4~20mA(2-wired)	P2	1/4" PT	O	Specify	
		016	0~16 Bar	V10	-1~0 Bar			P3	3/8" PT			
		020	0~20 Bar	B15	-1~5 Bar			P4	1/2" PT			
		040	0~40 Bar	O	Specify			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 600bar, it's only available in diaphragm type.

Amend: 2006/9/12, Add Diaphragm type

E-03

CSEC-06/08