

# PRESSURE TRANSMITTER (Auto-tracing compensation zero-area function)

MODEL  
SP



(Auto-tracing)



## FEATURES

- Accuracy 0.25%, 0.5%, F.S.
- Auto-tracing compensation for zero-area pressure (<0.15% F.S.)
- Field-temperature compensation function (-25 to +85°C)
- Thick film strain gage on ceramic and stainless steel (SUS316)
- Pressure range from -1 to 250 bar
- Response time <5 milliseconds
- Output DC4~20mA RL(max.) <math><[(V\_s-10V)/0.02A]</math> Ω
- Protection class NEMA4/IP65

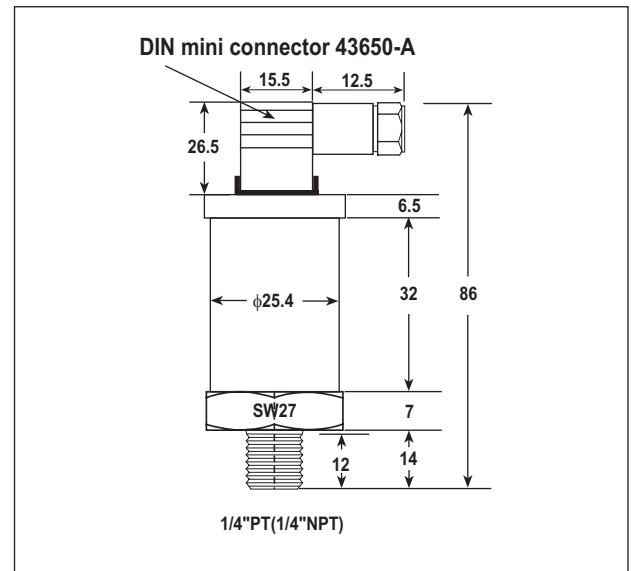
1. MODEL: SP-□ □ □ □ - □ □

NO	Pressure Type	NO	Pressure Range	NO	Pressure Range	NO	Pressure Range	NO	Pressure Range	NO	Accuracy	NO	Pressure connection
G	Gauge	1001	0~1.0 bar	6001	0~6.0 bar	4002	0~40 bar	2503	0~250 bar	A	0.5% F.S.	1	1/4"PT
A	Absolute	1601	0~1.6 bar	1002	0~10 bar	6002	0~60 bar	x102	-1~0 bar	B	0.25% F.S.	2	1/4"NPT
		2501	0~2.5 bar	1602	0~16 bar	1003	0~100 bar	xxxx	Customer			9	Customer
		4001	0~4.0 bar	2502	0~25 bar	1603	0~160 bar						

## 2. SPECIFICATION

- Two-wire supply voltage input : DC 10 to 30V
- Auto-tracing compensation range : < 0.15% F.S.
- Maximum permissible over pressure : Maximum 2 x rated (<160Bar)  
Maximum 1.5 x rated (>160Bar)
- Burst pressure : 3 x rated (<100Bar)  
2.25 x rated (>100Bar)
- Response time : <5ms (10-90%)
- Output drive capability : <math><[(V\_s-10V)/0.02A]</math> Ω
- Output ripple (p-p) : < 0.1% F.S.
- Diaphragm materials : Ceramic Al<sub>2</sub>O<sub>3</sub>-96%
- Pressure port materials : Stainless steel 1.4401 (SUS316)
- Housing materials : Stainless steel 1.4301 (SUS304)
- Seale(media wetted)materials : NBR < 16 Bar  
PVDF > 16 Bar
- Electronic connection : DIN mini connector 43650-A  
(Protection class IP65)
- Thermal span shift : ±0.04% F.S./10°C (Accuracy=±0.5% F.S.)  
±0.02% F.S./10°C (Accuracy=±0.25% F.S.)
- Thermal zero shift : ±0.04% F.S./10°C (Accuracy=±0.5% F.S.)  
±0.02% F.S./10°C (Accuracy=±0.25% F.S.)
- Zero point long term stability : ±0.2% F.S./year (<160 Bar Accuracy=±0.5% F.S.)  
±0.3% F.S./year (>160 Bar Accuracy=±0.5% F.S.)  
±0.1% F.S./year (<160 Bar Accuracy=±0.25% F.S.)  
±0.15% F.S./year (>160 Bar Accuracy=±0.25% F.S.)
- Repeatability : < ±0.1% F.S.
- RFI protection : 2W-150MHz at 2 meter causes less than 0.5% change in output
- Operating temperature range : -25 to 85°C
- Storage & medium temperature range : -40 to 125°C
- CE EMC Certification : EN 55022:1998/A1:2000 Class A  
EN 61000-3-2:2000  
EN 61000-3-3:1995/A1:2001  
EN 55024:1998/A1:2001

## 3. DIMENSION (unit:mm)



## 4. TERMINAL CONNECTION

