SMART SENSOR

P-150

Pressure Transmitter

Connector Type

- 0 to 1...1,000bar
- Provides a high level output
- Superior Long term Stability
- Temperature Compensated
- Linear Amplified Output
- Excellent Repeatability & Hysteresis
- EMI/RFI Protection

P-150 Analogue output type

P-150 series Long term minimization of these errors is maintained after millions of full scale overpressure cycles, making electronic set point virtually drift-free.
Use of ceramic materials in the sensing element or silicon MEMS strain gage elements glass bonded to stainless steel diaphragm and its mounting provides excellent resistance to most liquids and chemicals. Ruggedness and reliability are also enhanced by a stainless steel housing to resist corrosion pressure sealing for media compatibility is provided by selection of welding Sealing type. metal sensing element contains and integral, reliable, solid state, custom hybrid circuit signal conditioner. This circuit is digital interface can be used for a simple PC-controlled calibration procedure, in order to program a set of calibration coefficients into an on-chip EEPROM and without the cost overhead associated with trimming by external devices or a laser.

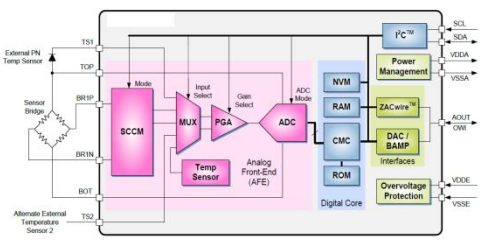
TYPICAL APPLICATIONS

✓Process control
✓ Pneumatic and hydraulic controls
✓ Pump and compressors
✓ Agricultural technology
✓ Environmental control systems
✓ Level / Depth instrumentation

Physical Data
[Custom Ranges and Compound Ranges Available]

Gauge Pressure	Unit	Over Pressure	Burst
◆ 5, 10, 15, 20, 35, 50	bar	◆3 x F.S.	◆5 x F.S.
◆100, 250, 300, 500,600,1000	bar	◆2 x F.S.	◆3 x F.S.

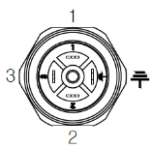
General SPEC

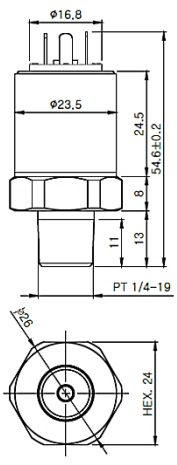
Characteristic	P-150(V)	P-150(A)
Pressure Range	0 to 1...500bar	
Power Supply	[Voltage] 5/12/24VDC	[Current] 12/24VDC
Output	[3 Wire] 0.5 to 4.5VDC 1 to 6VDC	[2 Wire] 4 to 20mA
Operating Temp. Range	-40 to 135℃	
Compensated Temp. Range	-30 to 125 ℃	
Accuracy	±1.0 %F.S (Option : ±0.5 %F.S)	
Non-linearity	±0.1%	
Hysteresis and repeatability	±0.03% typical	
Body Material	SUS304	
ASIC Diagram		

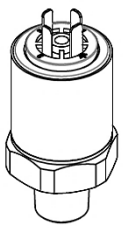
Dimensions (mm)

Description

PIN No.	3-WIRE 0.5~4.5V	3-WIRE 1~6V	2-WIRE 4~20mA
1	Power+	Power+	Power+
2	GND	GND	Power-
3	Output	Output	N.C
⏚	EH	N.C	EH







ISOMETRIC VIEW

P-150

How to order

P - 150	□	□	□	□	□	□	□	□
1) Output type	I	I	I	I	I	I	I	I
Voltage type	V	I	I	I	I	I	I	I
Current type	A	I	I	I	I	I	I	I
2) Kind of pressure		I	I	I	I	I	I	I
Absolute pressure	----------	A	I	I	I	I	I	I
Gauge pressure	----------	G	I	I	I	I	I	I
3) Pressure range			I	I	I	I	I	I
0 to 5 bar	----------	----------	005	I	I	I	I	I
0 to 10 bar	----------	----------	010	I	I	I	I	I
0 to 15 bar	----------	----------	015	I	I	I	I	I
0 to 20 bar	----------	----------	020	I	I	I	I	I
0 to 35 bar	----------	----------	035	I	I	I	I	I
0 to 50 bar	----------	----------	050	I	I	I	I	I
0 to 100 bar	----------	----------	100	I	I	I	I	I
0 to 250 bar	----------	----------	250	I	I	I	I	I
0 to 500 bar	----------	----------	500	I	I	I	I	I
0 to 600 bar	----------	----------	600	I	I	I	I	I
0 to 1,000 bar	----------	----------	1K0	I	I	I	I	I
Other on request	----------	----------	Z	I	I	I	I	I
4) Output signal				I	I	I	I	I
0.5 to 4.5 VDC	----------	----------	----------	V1	I	I	I	I
1 to 6 VDC	----------	----------	----------	V2	I	I	I	I
4 to 20mA	----------	----------	----------	A	I	I	I	I
Other on request	----------	----------	----------	Z	I	I	I	I
5) Supply Voltage					I	I	I	I
5 VDC	----------	----------	----------	----------	5	I	I	I
12 VDC	----------	----------	----------	----------	12	I	I	I
24 VDC	----------	----------	----------	----------	24	I	I	I
Other on request	----------	----------	----------	----------	Z	I	I	I
6) Process connection						I	I	I
PF1/4″	----------	----------	----------	----------	----------	F14	I	I
PT1/4″	----------	----------	----------	----------	----------	T14	I	I
Other on request	----------	----------	----------	----------	----------	Z	I	I
7) Seal material							I	I
Silicone	----------	----------	----------	----------	----------	----------	S	I
NBR	----------	----------	----------	----------	----------	----------	N	I
Viton	----------	----------	----------	----------	----------	----------	V	I
Other on request	----------	----------	----------	----------	----------	----------	Z	I
8) Connection type								I
DIN Angular connector type	----------	----------	----------	----------	----------	----------	----------	C