

P-700V

Pressure Transmitter

Compact Metal Sensor

- 0 to 1...600bar
- Provides a high level Analog
- **■** Superior Long term Stability
- **■** Temperature Compensated
- **Linear Amplified Output**
- **Excellent Repeatability & Hysteresis**
- **EMI/RFI Protection**

P-700V 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 Metal 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.

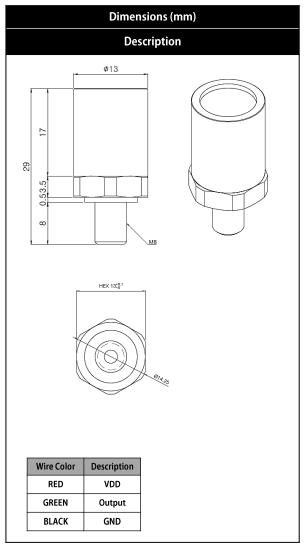


Physical Data [Custom Ranges and Compound Ranges Available]						
Gauge Pressure	Unit	Over Pressure	Burst			
♦ 5, 10, 15, 20, 35, 50	bar	♦3 x F.S.	♦ 5 x F.S.			
◆ 100, 250, 300, 600	bar	♦ 2 x F.S.	♦ 3 x F.S.			

General SPEC			
Characteristic	P-700V		
Pressure Range	0 to 1600bar		
Power Supply	3VDC / 5VDC		
Output	0.5 to 4.5VDC / I ² C output		
Operating Temp. Range	-40 to 135℃		
Compensated Temp. Range	-30 to 125 ℃		
Total Accuracy	±1.0 %F.S (Option : ±0.5 %F.S)		
Non-linearity	±0.5%		
Hysteresis and repeatability	±0.05% typical		
Body Material	SUS304		

TYPICAL APPLICATIONS

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



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P - 700V Image: contraction of the contract			How to	order			
1) Output type 0.5 to 4.5 VDC Other on request Z							
0.5 to 4.5 VDC	P - 700V						
Other on request Z I	1) Output type	1	1	1	1	1	1
2) Pressure range	0.5 to 4.5 VDC	1	1	1	1	1	1
0 to 5 bar	Other on request	Z	1	1	1	1	1
0 to 10 bar 010 0 to 15 bar 015 0 to 20 bar 020 0 to 35 bar 035 0 to 50 bar	2) Pressure range			1	1	1	1
0 to 15 bar 015 0 to 20 bar 020 0 to 35 bar 035 0 to 50 bar 050 0 to 100 bar 100 0 to 250 bar 600 0 ther on request	0 to 5 bar			005	1	1	1
0 to 20 bar 020 0 to 35 bar 035 0 to 50 bar 050 0 to 100 bar 100 0 to 250 bar 600 0 ther on request	0 to 10 bar			010	1	1	1
0 to 35 bar 035 0 to 50 bar 050 0 to 100 bar 100 0 to 250 bar	0 to 15 bar			015	1	1	1
0 to 50 bar 050 0 to 100 bar 100 0 to 250 bar 250 0 to 600 bar 600 Other on request Z 3) Supply Voltage 5 VDC Other on request Z 4) Process connection	0 to 20 bar			020	1	1	1
0 to 100 bar	0 to 35 bar			035	1	1	1
0 to 250 bar	0 to 50 bar			050	1	1	1
0 to 600 bar	0 to 100 bar			100	1	1	1
Other on request Z	0 to 250 bar			250	1	1	1
3) Supply Voltage	0 to 600 bar			600	1	1	1
5 VDC	Other on request			Z	1	1	1
Other on request Z 4) Process connection	3) Supply Voltage					1	I
4) Process connection	5 VDC						I
M6	Other on request					Z	I
	4) Process connection						I
Other on request Z	M6						
	Other on request						Z

□ Document Revision History

Document#	DATE	Description
P-700V rev1.0	2024.08.08	First Release.

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