

P-900M

Pressure Transducer

Hex22, M12 connector

- Provides a high level output
- Superior Long term Stability
- **■** Temperature Compensated
- **Linear Amplified Output**
- **■** Excellent Repeatability & Hysteresis
- **■** EMI/RFI Protection

P-900M Long term minimization of these errors is maintained after millions of full scale overpressure cycles, making electronic set point virtually drift-free. Use 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 Non-welding Sealing type. metal sensing element contains and integral, reliable, solid state, custom ASIC. 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.

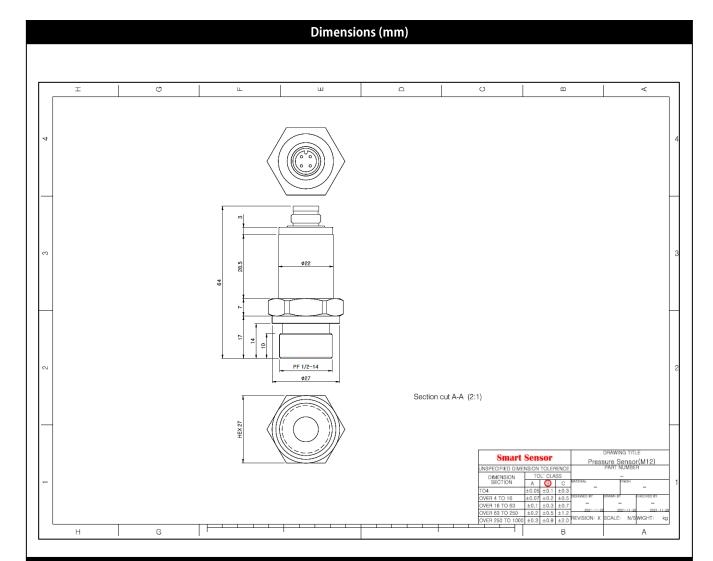


TYPICAL APPLICATIONS

- ✓ Process control
- ✓ Pneumatic and hydraulic controls
- ✓ Pump and compressors
- ✓ Agricultural technology
- ✓ Environmental control systems

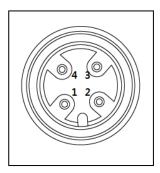
General SPEC							
Characteristic	P-900M(A)	P-900M(V)	P-900M(HV)				
Output	4~20mA	0.5~4.5V / 0~5V / 1~5V	0~10V				
Power Supply	8~30VDC 14~36VDC						
Electric connection	Hex22, M12 connector						
Pressure Range	+/-250 [mbar] ※Option range						
Operating Temp. Range	-40 to 125°C						
Compensated Temp. Range	-20 to 80℃						
Accuracy	≤±0.5%F.S[Typical/25°C]						
Total Error band	±1.5 %F.S [Typical] / ±2.0 %F.S [MAX]						
Hysteresis and repeatability	±0.1 %F.S [Typical] / ±0.15 %F.S [MAX]						
Process connection	G1/2", G1/4", R1/2", R1/4" and Option.						
Wetted Port material	STS630						
Body material	STS316 / STS303						
Electric connection material	PA66 + GF30 gold plated Pin						
Enclosure	IP67						
Over Pressure / Burst Pressure	2 x F.S. / 10 x F.S.						
Response time 10~90%	≤2ms						
Withstandvoltage	500V AC (1minutes between case and all terminals tied)						
Insulation resistance	Greater than 100MΩ (20V DC between case and all terminals tied)						
Mechanical life cycle	1,000,000/cycle						
Circuit protection	Reverse polarity protected. (Power supply +/-)						
Shock proof	1000m/s² (6ms or less, X, Y, Z 3times for each at constant temp.)						
Vibration proof	200m/s² (10~2000	OHz, X:4h, Y:2h, Z:2h at constant	temp.)				

Model [P-900M] ver1.2.3



Description

ELECTRONICAL CONNECTIONS;



	P-900M(A)		P-900M(V) / (HV)		
No.	Description	Wire color	No.	Description	
1	POWER(+)	Red	1	VDC	
2	N.C	-	2	Signal	
3	POWER(-)	Black	3	GND	
4	N.C	-	4	N.C	

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P-900M

P - 9	900M					
) Output signal	1	I	I	I	1	1
4~20mA		Α	1	1	I	1
0~5V		V0	I	1	1	1
1~5V		V1	I	1	1	1
0.5~4.5V (ratiometric)		V2	I	I	1	1
0~10V		HV	I	I	1	1
?) Supply Voltage	1	ı	I	I	1	1
			5	I	1	1
14~36 VDC			6	1	I	I
Other on request			Z	1	1	1
s) Pressure range	I	1	I	1	1	I
-250 to +250 mbar				G	1	1
Other on request				Z	I	1
l) Process connection	1	1	I	1	1	1
G1/2" (PF1/2")					G2	1
G1/4" (PF1/4")					G4	1
Other on request					Z	1
i) Seal material	I	I	I	I	I	I
Silicone						S
NBR						N
Viton						V
Other on request						Z