

# P-900C

## **Pressure Transducer**

### M12 Cable Type

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

P-900C is 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.



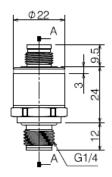
#### TYPICAL APPLICATIONS

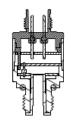
- ✓ Process control
- ✓ Pneumatic and hydraulic controls
- ✓ Pump and compressors
- ✓ Agricultural technology
- ✓ Environmental control systems

General SPEC							
Characteristic	P-900C(A)	P-900C(V)	P-900C(HV)				
Output	4~20mA	0.5~4.5V / 0~5V / 1~5V	0~10V				
Power Supply	8~30VDC 12~36VDC						
Electric connection		M12 Cable type					
Pressure Range	0~1	050 [bar G] and Option.					
Operating Temp. Range		-40 to 125℃					
Compensated Temp. Range		-20 to 80°C					
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	G1/4" and Option.						
Wetted Port material	STS630						
Body material		STS316 / STS303					
Electric connection material	PA6	6 + GF30 gold plated Pin					
Enclosure		IP67					
Over Pressure / Burst Pressure	2 x F.S. / 10 x F.S.						
Response time 10~90%	≤2ms						
With stand voltage	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 (10~2000Hz, X:4h, Y:2h, Z:2h at constant temp.)						

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#### Dimensions (mm)





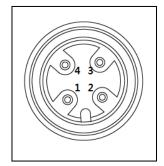
Section cut A-A (1:1)

4	-	-	-	-	
3	-	-	-	-	
2	-	-	-	-	
1	-	-	-	-	
N.O	Q'TY	PART NUMBER	MATERIAL	REMARK	

Smart Sensor				DRAWING TITLE				
				Pressure Sensor				
UNSPECIFIED DIMENSION TOLERENCE				PART NUMBER				
DIMENSION	TOL' CLASS			P-900 G1/4 O-ring				
SECTION	Α	В	С	_		FINISH		
TO4	±0.05	±0.1	±0.3				_	
OVER 4 TO 16	±0.07	±0.2	±0.5	DESIGN	ED BY	DRAWN E	ΒY	CHECKED BY
OVER 16 TO 63	±0.1	±0.3	±0.7		-		•	-
OVER 63 TO 250	±0.2	±0.5	±1.2	REVISION:X		SCALE: N/SVA		WIGHT:
OVER 250 TO 1000	±0.3	±0.8	±2.0			SCALE	. 14/3	WIGHT.

#### Description

#### **ELECTRONICAL CONNECTIONS;**



	P-900C(A	<b>1</b> )	P-90	00C(V) (HV)
No.	Description	Wire color	No.	Description
1	POWER(+)	Red	1	VDC
2	N.C	-	2	ОИТ
3	POWER(-)	Black	3	GND
4	N.C	-	4	N.C

How to order					
P - 900C					
1) Output signal	I	1	1	1	
4~20mA	Α	I	I	1	
0~5V	V0	1	1	1	
1~5V	V1	1	1	1	
0.5~4.5V	V2	1	1	1	
0~10V	HV	I	I	I	
2) Pressure range	I	I	I	I	
0~1050 [bar G] and request		request	1	I	
3) Process connection	I	1	1	I	
G1/4" (PF1/4" )			G4	I	
Other on request			request	1	
4) Seal material	I	1	1	1	
NBR				N	
Viton				V	
Other on request				request	

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