P-920

Pressure Transducer

AMP 3Pconnector

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

P-920 series

P-920 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.

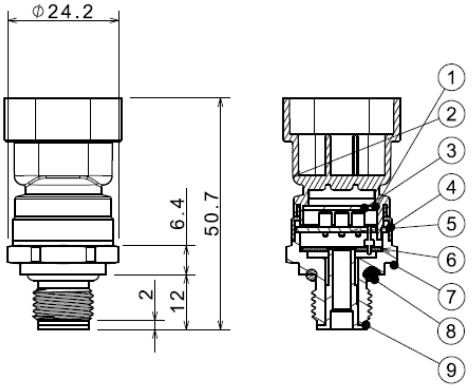
TYPICAL APPLICATIONS

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

General SPEC			
Characteristic	P-920(A)	P-920(V)	P-920(HV)
Output	4~20mA	0.5~4.5V / 0~5V / 1~5V	0~10V
Power Supply	8~30VDC	12~36VDC	
Electric connection	AMP 3P connector		
Pressure Range	0~10...50 [bar G] and Option.		
Operating Temp. Range	-40 to 125℃		
Compensated Temp. Range	-20 to 80℃		
Accuracy	≤±0.5%F.S [Typical/25℃]		
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	PA66 + GF30 gold plated Pin		
Enclosure	IP67		
Over Pressure / Burst Pressure	2 x F.S. / 10 x F.S.		
Response time 10~90%	≤2ms		
Withstand voltage	500V AC (1minutes between case and all terminals tied)		
Insulation resistance	Greater than 100㏁ (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.)		

P-920

Dimensions (mm)



N.O	Q'TY	PART NAME	MATERIAL	REMARK
9	1	MODULE	STS630	
8	1	O-RING	FPM/FKM	ID10.8/d2.4
7	1	HEX BODY	STS303	
6	1	SENSOR PCB	EPOXY RESIN	
5	1	MAIN PCB	EPOXY RESIN	
4	1	STEEL RING	STS303	
3	1	CONNECTOR PCB	EPOXY RESIN	
2	1	CONNECTOR	PBT,GF15%	
1	4	TERMINAL	BRASS	

Smart Sensor

DRAWING TITLE: Pressure Sensor

PART NUMBER: P-920 G1/4 O-ring

UNSPECIFIED DIMENSION TOLERENCE			
DIMENSION SECTION	TOL' CLASS A	B	C
TO4	±0.05	±0.1	±0.3
OVER 4 TO 16	±0.07	±0.2	±0.5
OVER 16 TO 63	±0.1	±0.3	±0.7
OVER 63 TO 250	±0.2	±0.5	±1.2
OVER 250 TO 1000	±0.3	±0.8	±2.0

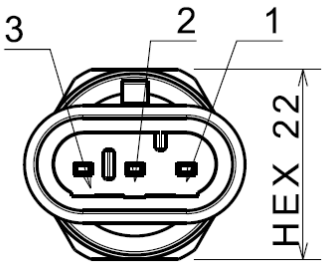
MATERIAL	FINISH
-	-

DESIGNED BY	DRAWN BY	CHECKED BY
-	-	-

REVISION:X SCALE: N/S WIGHT:

Description

ELECTRONICAL CONNECTIONS ;



P-920(V) / (HV)	
No.	Description
1	VDC
2	GND
3	OUT

P-920(A)	
No.	Description
1	POWER(+)
2	N.C
3	POWER(-)

How to order

P - 920 □ □ □ □

1) Output signal				
4~20mA	A			
0~5V	V0			
1~5V	V1			
0.5~4.5V	V2			
0~10V	HV			
2) Pressure range				
0~10...50 [bar G] and request	----------	request		
3) Process connection				
G1/4″ (PF1/4″)	----------	----------	G4	
Other on request	----------	----------	request	
4) Seal material				
NBR	----------	----------	----------	N
Viton	----------	----------	----------	V
Other on request	----------	----------	----------	request