

P-85

Pressure Sensor

Cable Type

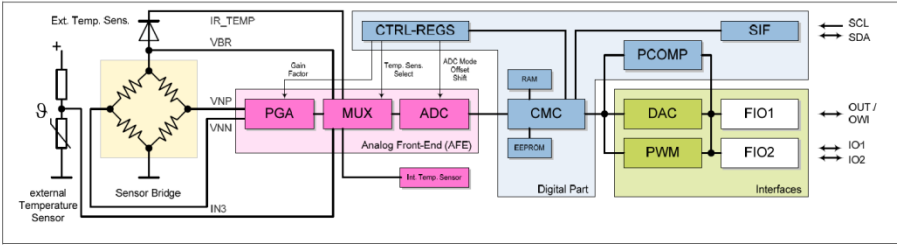
- Pressure range : 0 to 50...1,000 Torr
- Dry/Wet media
- Superior Long term Stability
- Temperature Compensated
- Linear Amplified Output
- Excellent Repeatability & Hysteresis
- EMI/RFI Protection

P-85 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

- ✓ Transmissions
- ✓ Water management
- ✓ Air conditioning and refrigeration
- ✓ Pneumatic and hydraulic controls
- ✓ Pump and compressors
- ✓ Level / Depth instrumentation

General SPEC	
Characteristic	P-85
Pressure Range	0 to 50...1,000 Torr
Power Supply	12 / 24VDC
Output	[2 Wire] 4 to 20mA
Operating Temp. Range	-20 to 85°C
Compensated Temp. Range	-0 to 50 °C
Accuracy	±1.0 %F.S
Non-linearity	±0.3%
Hysteresis and repeatability	±0.2%
Body Material	STS316
Block Diagram	

Physical Data [Custom Ranges and Compound Ranges Available]			
Pressure	Unit	Over Pressure	Burst
◆ 50, 100, 150, 200, 350, 500, 1000	Torr	◆ 2 x F.S.	◆ 3 x F.S.

Dimensions (mm)

Technical drawing of the P-85 pressure sensor showing front, side, and isometric views with dimensions.

Front View Dimensions:

- Top flange: $\varnothing 22$
- Top flange thickness: 11
- Body length: 35
- Body diameter: $\varnothing 26.8$
- Body thickness: 7
- Bottom flange thickness: 17
- Bottom flange diameter: $\varnothing 30$
- Bottom flange hole diameter: $\varnothing 10$
- Bottom flange hole spacing: PF1/2-14

Side View Dimensions:

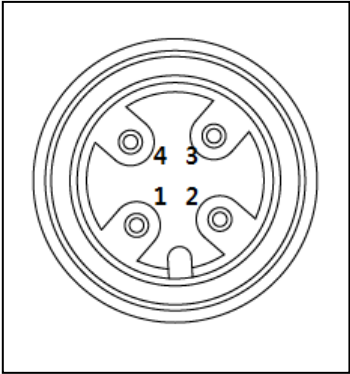
- Connector: 11
- Laser Welding: 35
- Body: 7

Isometric View: ISOMETRIC VIEW

REV.	DATE	DESCRIPTION	CHKD
1			

Part name	Material	Scale	Approved
ASSEMBLY		1/1	
	Model Name	Unit	Checked
	P-85	mm	Designed
		Size	Date

ELECTRONICAL CONNECTIONS ;



P-85		
No.	Description	Wire color
1	N.C	-
2	POWER(+)	Red
3	N.C	-
4	POWER(-)	Black

How to order

P - 85	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1) Output type								
Current type	A							
Other on request	Z							
2) Kind of pressure								
Absolute pressure	-----	A						
Other on request	-----	Z						
3) Pressure range								
0 to 50 Torr	-----	-----	5					
Other on request	-----	-----	Z					
4) Output signal								
4 to 20mA	-----	-----	-----	4				
Other on request	-----	-----	-----	Z				
5) Supply Voltage								
12 VDC	-----	-----	-----	-----	1			
24 VDC	-----	-----	-----	-----	2			
Other on request	-----	-----	-----	-----	Z			
6) Process connection								
PF1/2" - 14	-----	-----	-----	-----	-----	A		
Other on request	-----	-----	-----	-----	-----	Z		
7) Seal material								
Silicone	-----	-----	-----	-----	-----	-----	S	
NBR	-----	-----	-----	-----	-----	-----	N	
Viton	-----	-----	-----	-----	-----	-----	V	
Other on request	-----	-----	-----	-----	-----	-----	Z	
8) Connection type								
Circular cable type	-----	-----	-----	-----	-----	-----	-----	C
Other on request	-----	-----	-----	-----	-----	-----	-----	Z