



Pressure Sensor – 16 bar

For 4-20mA or Modbus RS485 output

Features:

Pressure Range:

- 0 to 16 bar
- 0 to 232 psi

Accuracy +/- 1°C

Outputs:

- (i) Digital - Modbus
- (ii) Analog - 4-20mA

IP65 rated

Connection options:

- M12 connector or
- 5m Data Cable

Stainless Steel Casing

Operating range between

-30°C to +80°C

(-22 to +176°F)

Easy to install and wire

Permanent or temporary measurement

Ideal for manufacturing and industrial environments

Compatible with

Compressed Air Alliance's Data Acquisition System



Compressed Air Alliance's pressure sensor can be used to measure pressure loss across compressed air and gas systems. It can be installed in both wet and dry gases up to 16 bar (232 psi). The sensor has 4-20mA or Modbus output.

For effective measurements, we recommend you install at least two pressure sensors – (i) one pressure sensor on the wet side of the system to monitor compressor output and (ii) one on the dry side of the system to measure the system supply pressure. Other pressure sensors can be installed to measure pressure drop at key locations such as near any high compressed air or gas consumers and at the far ends of the system.

Benefits of monitoring pressure:

- Monitor system pressure and fluctuations
- Improve system performance
- Avoid financial losses from down time
- Improve reliability and scheduled maintenance
- Protect key assets and critical equipment such as Compressors, Pumps, Conveyors, Motors, Fans, Cooling towers and other key production machinery
- Plan maintenance in advance and prevent expensive failures

sales@compressedairalliance.com

www.compressedairalliance.com

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Specifications

Sensor

Sensor Technology	Ceramic core, resistant to moisture
Pressure Range	0 to 16 bar 0 to 232 psi
	±1%
Dew Point Accuracy	<i>The accuracy of the sensor is affected by on-site conditions. Contaminants such as oil, high humidity or other impurities can affect the sensor's calibration and accuracy.</i>

Output

Output Signal	Pressure
Units of Measure	kPa, MPa, Bar, PSI, mBar, , mH2O @ 20°C,
Outputs	4-20 mA (2 wire) Modbus RTU (RS485)
Connector	1 x 5 pin M12, female

Power Supply

Power Requirement	≤10mA, 24V DC
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Other

Process Connection	G1/4" thread
IP Rating	IP65
Casing	Stainless Steel
Dimensions	100 mm L x 33 mm W 3.9" L x 1.3" W
Ambient Temperature	-30 to +80°C -22 to +176°F
Relative Humidity	0 to 95% RH
Installation Type	Permanent, or Temporary installation
Calibration Frequency	Every 2 years
Warranty Period	12 Months



Wiring

4-20mA Connection		Cable Colour		Cable Colour	Modbus Connection	
Pin 1	Not used	Brown		Brown	Pin 1	A port of RS485 (Data +)
Pin 2	Not used	White		White	Pin 2	B port of RS485 (Data -)
Pin 3	Not used	Blue		Blue	Pin 3	Not used
Pin 4	+24vDC	Black		Black	Pin 4	+24vDC
Pin 5	4-20mA and 0vDC	Grey		Grey	Pin 5	0vDC

4-20mA Scaling

Pressure Range	4 mA	20mA
0-16 bar (232 psi)	0	16

Default Modbus Settings

Address	Baud Rate	Data / Parity / Stop Bits
1	9600	8/N/1

How to Order

Buy online: www.compressedairalliance.com/products

