# Pressure Sensor – 16 Bar

Gas and non-aggressive liquids

### **Key Features**

- Pressure Range: 0 to 16 bar (232 psi)
- IP65 rating
- Accuracy: ±1%
- Power Supply: 24 vDC
- Output
  - o Digital: Modbus RS485
  - Analogue: 4...20 mA
- Measure: pressure
- Ceramic core, resistant to moisture



### About

Compressed Air Alliance's pressure sensor can be used to measure pressure in compressed air, gas and non-aggressive liquids. 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.

# Applications

- Manufacturing and industrial use
- Gas and non-aggressive liquids
- Temporary or permanent installation
- Gas pressure up to 16 bar (232 psi)



More Info



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# Specifications

Sensor Information		
Technology	Ceramic core, resistant to moisture	
Medium	Gas Non-aggressive liquids	
Measurement0 to 16 barRange:0 to 232 psi		
Units of Measure	kPa, MPa, Bar, PSI, mBar, mH2O @ 20°C	
Accuracy ±1%		
The accuracy and response time of the sensor can be affected by the on-site conditions, contaminates in the gas and incorrect installation.		
Power		
Power Requirement	≤10mA, 24V DC	

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Process Connection	ISO G1/4" thread
IP Rating	IP65
Housing Material	Stainless Steel
Ambient Temperature	-30°C to +80°C -22°F to +176°F
Dimensions	100 mm L x 33 mm W 3.9" L x 1.3" W
Installation	Permanent or Temporary
Warranty	12 months

≤10mA, 24V DC

**Electrical Connection** 

5 pin M12, female

	Output
Output	Analogue: 4 to 20mA (2 wire) Digital: Modbus RTU
Output Signals	Pressure



## Wiring

4-2	0mA Connection	Cable Colour	
Pin 1	Not used	Brown	
Pin 2	Not used	White	4 3
Pin 3	Not used	Blue	
Pin 4	+24vDC	Black	
Pin 5	4-20mA and 0vDC	Grey	

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

# 4-20mA Scaling

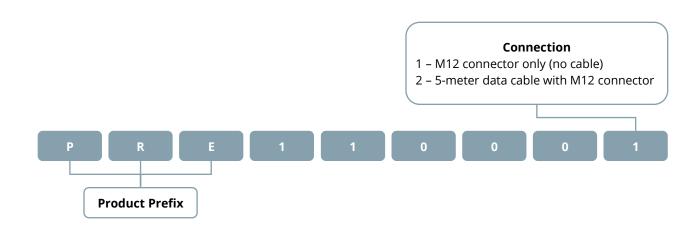
Pressure Range	4 mA	20mA
0-16 bar (232 psi)	0	16

# Default Modbus Settings

Ad	ddress	Baud Rate	Data / Parity / Stop Bits
	1	9600	8/N/1

### How to Order

Buy online: www.compressedairalliance.com/products





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#### **Dew Point Sensors**

For compressed air and gas in manufacturing and industrial environments

#### Pressure Dew Point (PDP) Range

- -60 to +60°C (-76°F to +140°F)
  - for refrigerant, drum, membrane 0 and desiccant dryers
- -80 to +20°C (-112°F to +68°F)
  - for membrane and desiccant dryers 0 and Nitrogen systems
- -110 to +20°C (-166 °F to +68°F)
  - o for membrane and desiccant dryers

**Power Supply** 24vDC Outputs Modbus RTU (RS485) and 4-20mA Data Logging No Display Optional Accuracy up to ±2%

Modbus RTU (RS485) and 4-20mA



	Flow Meters
	For compressed air and gas in manufacturing and industrial environments
	Flow Meter Range
0 17 = 32 =	<ul> <li>Vortex – for very wet gas and steam</li> <li>Pitot Tube – for wet gas and high velocity</li> </ul>

gas Thermal Mass – for dry, clean gas

**Power Supply** 24vDC



#### **Power Meters** Outputs Modbus RTU (RS485) For compressed air and gas in manufacturing and industrial environments Data Logging No Type Display 3 Phase Single Phase Yes Accuracy Power Supply 24vDC ±0.1%



### **Online Monitoring**

Get online access to your data via a laptop, tablet or mobile phone. Monitor energy, water, gas and other data in real time, 24 hours per day, 7 days per week.

Outputs

Yes Display

Yes

Accuracy

±(1.5% RD + 0.3% FS)

Data Logging

- Suitable for all Compressed Air Alliance products as well as other brands
- View and analyse data and graphs
- Set alarms and SMS and/or email notifications
- Track performance against targets
- Download data in csv format
- Self-assessments to compare your system against best practice

