

FEATURES

- Compact and rugged
- Output 4mA-20mA
- BSP 1/4
- M12 4-pin connector
- Piezo-resistive thick film ceramic sensor

RS PRO Pressure Sensor for Gas, Liquid, 250bar Max Pressure Reading Analogue

RS Stock No.: 102-4132



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

These IND-series Pressure Sensors, also known as pressure transmitters from our own RS PRO brand are suitable for wide range of industrial applications. These devices change pressure forces into electrical signals. They are used to measure the pressure of the specific quantity like air, water and gas by changing the pressure into electrical energy. The probe uses a piezo-resistive ceramic sensor, giving excellent media compatibility within a stainless-steel housing.

General Specifications

Pressure Reading Type	Relative
Sensor Type	Piezo-resistive thick film ceramic sensor
Pressure Reading Range	0Bar to 250Bar
Accuracy	±0.25%
Hysteresis	<±0.25%
Output Type	Analogue
Pressure Setting Range	-1bar to 400bar
Media Measured	Gas, Liquid
Process Connection	G1/4
Overpressure Resistance	500bar
Burst Pressure	650bar
Mounting Type	Threaded
Calibration Available	Yes
Applications	Mechanical engineering, Environmental engineering, Automotive testing, Pneumatics, Agricultural machinery, Laboratory testing

Electrical Specifications

Supply Voltage	9Vdc to 32Vdc
Output Signal	2-wire 4mA-20mA
Maximum Current	20mA
Electrical Connection	DIN 43650 Type A
Insulation	> 50Mohms at 50Vdc

Mechanical Specifications

Housing Material	Stainless Steel
Type of Seal	"O" ring seals
Diaphragm Material	Ceramic Al ₂ O ₃ 96%
Dimensions	1/4" male thread, 100mm Nominal, Ø 24mm, 18mm A/FHex
Weight	Approx. 100g
Fatigue Life	>100x 10 ⁶ cycles

Operation Environment Specifications

Operating Temperature Range	-20°C to 75°C
Storage Temperature Range	-20°C to 80°C
Compensated temperature range	20°C to 80°C
Shock	100g/11s
Vibration	10g(20Hz - 2000Hz)

Protection Category

IP Rating	IP65
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Approvals

Compliance/Certifications	CE, RoHS
Hazardous Area Certification	ATEX, IECEx



Industrial Pressure Sensor - Ceramic

RS Stock No.	Pressure Rating	Output
7974989	0 - 1 Bar G	0 - 100mV
7974983	0 - 1 Bar G	4 - 20mA
7975043	0 - 1 Bar G	0 - 5V
7975009	0 - 6 Bar G	0 - 100mV
7975011	0 - 6 Bar G	4 - 20mA
7975046	0 - 6 Bar G	0 - 5V
7975024	-1 to +9 Bar G	4 - 20mA
7974970	-1 to +9 Bar G	0 - 5V
7974992	0 - 10 Bar G	0 - 100mV
7975018	0 - 10 Bar G	4 - 20mA
7975037	0 - 10 Bar G	0 - 5V
7974964	0 - 16 Bar G	0 - 100mV
8285741	0 - 16 bar G	4 - 20mA
8285745	0 - 16 bar G	0 - 5V
7974999	-1 to +24 Bar G	4 - 20mA
7974961	-1 to +24 Bar G	0 - 5V
7975052	0 - 25 Bar G	0 - 100mV
7975015	0 - 25 Bar G	4 - 20mA
7975030	0 - 25 Bar G	0 - 5V
7974977	0 - 40 Bar G	0 - 100mV
7975027	0 - 40 Bar G	4 - 20mA
7975033	0 - 40 Bar G	0 - 5V
7974995	0 - 100 Bar G	0 - 100mV
7975021	0 - 100 Bar G	4 - 20mA
7975005	0 - 100 Bar G	0 - 5V
7975049	0 - 250 Bar G	0 - 100mV
7974967	0 - 250 Bar G	4 - 20mA
7974986	0 - 250 Bar G	0 - 5V
7975002	0 - 400 Bar G	0 - 100mV
7974955	0 - 400 Bar G	4 - 20mA
7974973	0 - 400 Bar G	0 - 5V

Mechanical Dimensions

