

FEATURES

- Leak test, tare, max/min and filter
- Integral desk stand and hanger
- Rugged, lightweight handheld design
- 0.1% full scale (FS) accuracy

RS PRO RS DPI Differential Manometer with 1 Pressure Port/s, Max Pressure Measurement 1bar

RS Stock No.: 146-7719



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

Introducing the RS PRO DPI series Differential Pressure Manometer. This high-quality device from RS PRO measures differential pressure with high accuracy of up to 1 bar or 15 psi. This compact and rugged manometer has a wide variety of measurement unit options, meaning that this is a great device that can be used across a wide range of pressure measurement applications, whilst offering reliable and accurate readings. In addition to being able to measure differential pressure, this manometer can also be used as a low-cost calibration tool for gauges and indicators when used with a pneumatic or hydraulic pump, making it an incredibly versatile piece of equipment for a great price. The DPI series of RS PRO manometers have been designed for single-handed operation and offers the most essential features that are necessary for routine maintenance and system troubleshooting applications.

General Specifications

Pressure Port Type	Differential
Number of Pressure Ports	1
Pressure Range	0bar to 1bar
Selectable Units	hPa / mbar / Pa / mmH2O / mmHg / inH2O / inHg / psi / ftH2O / bar / mHg / KPa / MPa / Kg/cm2
Over Range Indicator	Yes
Zero Pressure Correction	Yes
Maximum Overpressure	1bar
Alarm	Adjustable high pressure alarm with visual and audible warning
Best Accuracy	±0.1%
Display Type	LCD
Leak Testing	Yes
Low Battery Indicator	Yes
Minimum / Maximum Recordings	Yes
Intrinsically Safe	No
Calibration Available	Yes
Applications	HVAC systems, fluid flow measurement, gas pressure monitoring in piping system and compressor system.

Electrical Specifications

Battery Type	Alkaline
Auto Power Off time	Yes
Low Battery Indicator	Yes

Mechanical Specifications

Dimensions	90mm x 36mm x 190mm
Length	90mm
Width	36mm
Height	190mm
Weight	<500g

Operation Environment Specifications

Relative Humidity	0 to 95%
Minimum Operating Temperature	-10°C
Maximum Operating Temperature	50°C

Protection Category

IP Protection	IP54
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Approvals

Compliance/Certifications	EN61326-1 / CE marked
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RS Pro DPI Remote Sensor Version

Has an integral cable connector, a 3 ft (1 m) mating cable and a G 1/4 female pressure connector.

RS Pro Device		RS Pro Device	
Range	RS Article Number	Internal	Remote
70 mbar (1 psi)	146-7717	D	N/A
350 mbar (5 psi)	146-7718	N/A	D
1 bar (15 psi)	146-7719	D	N/A
7 bar (100 psi)	146-7720	G	N/A
10 bar (150 psi)	146-7721	N/A	A
20 bar (300 psi)	146-7722	N/A	G
700 bar (10,000 psi)	146-7723	N/A	A

a = absolute, d = differential, g = gauge

Accuracy

±0.1% FS non-linearity, hysteresis and repeatability.

Environmental

Temperature Performance Averaged 0°C to 50°C (32°F to 122°F)

- ±0.02% reading/°C (±0.01% rdg/°F)
- For absolute ranges < = 1 bar (15 psi) add ±0.05% FS/°C (±0.025% FS/°F)
- For absolute ranges > 1 bar (15 psi) add ±0.02% FS/°C (±0.01% FS/°F)
- Calibrated range: 0°C to 50°C (32°F to 122°F)
- Operating range: -10°C to 50°C (15°F to 122°F)