

## FEATURES

- Ex protection: suitable for zone 1 and zone 2
- Incl. leather case
- Integrated pressure sensor
- Sturdy metal connection pin
- Tare function
- Zero point and slope correction

## RS PRO Fine Manometer

RS Stock No.: 205-1446



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.

## Fine Manometer

### Product Description

This handheld instrument is a valuable tool for demanding pressure measurements (of air and no aggressive gases) in explosive environments.

Finest manometer with integrated Sensor from -500.0 ... 500.0 Pa ( $\pm 500.0$  Pa) for over/under pressure and pressure difference in

- Industry and craft, HVAC: heating, ventilation, air-conditioning
- Leakage test / pressure test
- Chimney draft measurement: under pressure, leakage test at buildings (i.e. 4 Pascal test)

### General Specifications

<b>Model Name</b>	RS PRO - ex
<b>Pressure Port Type</b>	Differential or relative
<b>Number of Pressure Ports</b>	2
<b>Pressure Range</b>	-500.0 ... +500.0 Pa (-5.000 ... +5.000 mbar)
<b>Selectable Units</b>	Pa / mbar / kPa / mmHg / PSI / m H <sub>2</sub> O
<b>Resolution</b>	0.1 Pa (0.001 mbar)
<b>Maximum Overpressure</b>	250 hPa (mbar)
<b>Response Time</b>	< 250 ms
<b>Over Range Indicator</b>	Yes
<b>Under Range Indicator</b>	Yes
<b>Zero Pressure Correction</b>	Yes
<b>Alarm</b>	No
<b>Best Accuracy</b>	+/- 0.3 % FS - hysteresis and linearity +/- 0.4 % FS (@ 0..50 °C) - temperature influence
<b>Display Type</b>	LCD
<b>Data Logging</b>	No
<b>Leak Testing</b>	No
<b>Low Battery Indicator</b>	Yes
<b>Minimum / Maximum Recordings</b>	Yes
<b>Intrinsically Safe</b>	Yes
<b>Interface</b>	Yes (not useable in ex-zone)
<b>Calibration Available</b>	Factory calibration protocol

### Electrical Specifications

<b>Battery Type</b>	9V battery
<b>Battery Life</b>	Approx. 500 h
<b>Auto Power Off time</b>	1 ... 120 minutes, can be deactivated
<b>Low Battery Indicator</b>	Yes

## Fine Manometer

### Mechanical Specifications

Housing Material	Break-proof ABS housing
Pressure connection	2 universal pressure port
Connection Size	connection ports for tubes 6 x 1 mm (4 mm inner diameter) and 8 x 1 mm (6 mm inner diameter)
Dimensions	
Length	142 mm + metal ports 16 mm at top of device (159 mm with leather case, incl. port)
Width	71 mm (74 mm with leather case)
Height	26 mm (35 mm with leather case)
Weight	Approx. 205 g (incl. case)
Vibration Resistance	Not specified
Shock Resistance	Not specified

### Operation Environment Specifications

Relative Humidity	0 ... 95 %RH (not condensing)
Minimum Operating Temperature	-10 °C
Maximum Operating Temperature	+50 °C
Storage Temperature Range	-20 to +70 °C

### Protection Category

IP Protection	Front side IP 65
Ex qualification	 II 2 G Ex ib IIC T4 Gb

### Additional Information

Custom Tariff Number	90262020
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### Approvals

Compliance/Certifications	CE, ATEX
Declarations	Manufacturer Conformity, EC-Type Examination Certificate

### Similar Products

Parameters	Stock# 205-1444	
Model Name	RS PRO - ex	
Pressure Port Type	Differential or relative	
Number of Pressure Ports	2	
Pressure Range	-1000 ... 2000 mbar	
Selectable Units	mbar / bar / kPa / MPa / PSI / mmHg / m H <sub>2</sub> O	
Resolution	1 mbar	
Maximum Overpressure	4 bar	
Response Time	< 250 ms	
Over Range Indicator	Yes	
Under Range Indicator	Yes	
Zero Pressure Correction	Yes	
Maximum Overpressure	4 bar	
Alarm	No	
Accuracy	+/- 0.2 % FS - hysteresis and linearity +/- 0.4 % FS (@ 0..50 °C) - temperature influence	
Display Type	LCD	
Data Logging	No	
Leak Testing	No	
Low Battery Indicator	Yes	
Minimum / Maximum Recordings	Yes	
Intrinsically Safe	Yes	
Interface	Yes (not useable in ex-zone)	
Calibration Available	Factory calibration protocol	