

Barometer

FEATURES

- With stainless steel pressure sensor
- Peak value detection (1000 measurements / s)
- Large double display with background illumination
- Waterproof (IP65/IP67)
- Durable with long battery life
- Modern compact housing.
- Calibrated and fully interchangeable pressure probes

RS MH 5130 + RS MSD 10 BAE

RS Stock No.: 205-0968



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.

Barometer

Product Description

This handheld instrument is a valuable tool for demanding pressure measurements. Extremely robust plug connections, the silicone protection cover, backlight and a waterproof design allow its usage in harsh industrial and field environments.

The supplied absolute stainless pressure steel sensor is suitable for: air, aggressive media, water, etc.

Application:

- Industry and craft, HVAC: heating, ventilation, air-conditioning
- Leakage test / pressure test
- Measurements of gas and oil firings
- Hydraulic analysis (peak pressure)
- Atmospheric pressure measurement with sea level correction

General Specifications

Model Name	RS MH 5130 + RS MSD 10 BAE
Display Range Measuring Instrument	Max. -19999 ... 19999 digit, depends on used sensor
Number of channels	1
Sensor Pressure Range	0...10,00 bar abs.
Sensor Pressure Port Type	Absolute
Number of Pressure Ports	1
Selectable Units	mbar / bar / kPa / MPa / inHg / mmHg / psi / mH₂O
Resolution	10 mbar
Maximum Overpressure	max 35 bar abs.
Response Time	< 1 ms (at measuring rate = peak detection)
Over Range Indicator	Yes
Under Range Indicator	Yes
Zero Pressure Correction	Yes
Accuracy Device	±0.1 % FS
Accuracy Sensor (typ. values)	±0.2 % FS (hysteresis and linearity) ±0.02 % FS/K (TC for zero or slope @ 0..70 °C)
Display Type	4 ½ digit 7-segment, illuminated (white)
Alarm	No
Data Logging	No
Leak Testing	Yes
Low Battery Indicator	Yes
Minimum / Maximum Recordings	Yes
Intrinsically Safe	No
Interface	Yes
Calibration Available	Factory calibration protocol for device, Calibration certificate for sensor optionally available

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Electrical Specifications

Battery Type	2 x AAA
Battery Life	500 h
Auto Power Off time	1 ... 120 minutes, can be deactivated
Low Battery Indicator	Yes

Mechanical Specifications

Housing Material Device	Break-proof ABS housing
Connection Pressure Sensor	1 x 7-pole bayonet connector
Connection Output / external supply	4-pole bayonet connector for serial interface, supply (with accessories: USB adapter USB 5100)
Device Dimensions	160 x 86 x 37 mm (H x W x D) incl. silicone protection cover (red)
Length	160 mm
Width	86 mm
Height	37 mm
Housing Material Sensor	Stainless steel
Connection Device	M12-plug (for connection cable RS MSD-K51)
Pressure connection	Connection thread G1/4", key width: 27 mm
Sensor Dimensions	approx. Ø 30 x 89 mm
Weight	approx. 480 g (device, protection cover, sensor and connection cable)
Vibration Resistance	Not specified
Shock Resistance	Not specified

Operation Environment Specifications

Relative Humidity	0..95 %RH (non condensing)
Minimum Operating Temperature	-20 °C
Maximum Operating Temperature	+50 °C
Storage Temperature Range	-25 to +70 °C

Protection Category

IP Protection	IP 65 / IP 67 (device), IP 67 (sensor), IP 54 (sensor plug)
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Additional Information

Custom Tariff Number	90262020
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Approvals

Compliance/Certifications	CE
Declarations	Manufacturer Conformity

Accessories Includes

Stock #	Item Name	Item Description	Qty
	RS MSD 10 BAE	pressure sensor 0 – 10.00 bar abs.	1
	RS MSD-K51	Connecting cable for RS MSD Sensor to RS MH 5130	1

Similar Products

Parameters	Stock# 205-0966	Stock# 205-0967	Stock# 205-0969
Model Name	RS MH 5130 + RS MSD 2.5 BAE	RS MH 5130 + RS MSD 350 MR	RS MH 5130 + RS MSD 10 BRE
Sensor Pressure Port Type	Absolute	Difference, Relative	Relative
Number of Pressure Ports	1	2	1
Pressure Range	0...2,500 bar abs.	0...350,0 mbar rel.	0...10,00 bar rel.
Selectable Units	mbar / bar / kPa / MPa / inHg / mmHg / psi / mH ₂ O	mbar / bar / kPa / inHg / mmHg / psi / mH ₂ O	mbar / bar / kPa / MPa / inHg / mmHg / psi / mH ₂ O
Resolution	1 mbar	0,1 mbar	10 mbar
Response Time	< 1 ms	< 1 ms	< 1 ms
Maximum Overpressure	max 10 bar abs.	max 1 bar rel.	max 35 bar rel.
Accuracy Device	±0.1 % FS		
Accuracy Sensor (typ. values)	±0.2 % FS (hyst. and lin.) ±0.02 % FS/K (TC for zero or slope @ 0..70 °C)	±0.2 % FS (hyst. and lin.) ±0.4 % FS (TC for zero or slope @ 0..50 °C)	±0.2 % FS (hyst. and lin.) ±0.02 % FS/K (TC for zero or slope @ 0..70 °C)
Display Type	4 ½ digit 7-segment, illuminated (white)		
Alarm	No		
Data Logging	No		
Leak Testing	Yes		
Low Battery Indicator	Yes		
Min./ Max. Recordings	Yes		
Intrinsically Safe	No		
Interface	Yes		