

WATER-PROOF HANDHELD DEVICE FOR PRESSURE MEASUREMENT WITH EXTERNAL CHANGEABLE PROBES



WATER-PROOF DEVICE AND
PLUG-IN CONNECTIONS



GMH 5130 / 50



GMH 5155

HIGHLIGHTS:

- Peak value detection (1000 measurements / s)
- Large double display with background illumination
- Calibrated and fully interchangeable pressure probes
- incl. calibration protocol

ADDITIONAL FUNCTIONS GMH 5150 AND 5155:



ADDITIONAL FUNCTIONS GMH 5155:

- 2 GMSD/MSD-probes connectable.
- Difference measurement of two probes

SUITABLE PRESSURE PROBES
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GMH 5130

Art. no. 600027

Waterproof handheld device for pressure measurement with 1 sensor connection, without sensor

GMH 5150

Art. no. 600031

Waterproof handheld device for pressure measurement with 1 sensor connection, analog output and data logger, without sensor

GMH 5155

Art. no. 600033

Waterproof handheld device for pressure measurement with 2 sensor connections, analog output and data logger, without sensors

General:

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

Application:

- 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)
- Measurements of gas and oil firings
- Automobile trade, hydraulic analysis (peak pressure)

| Specifications: | GMH 5130 |
|----------------------------------|--|
| Sensor connections: | 1 |
| Suitable probes: | GMSD / MSD sensors, available ranges (resolutions) from -1.999 ... 2.500 mbar (0.001 mbar) to 0 ... 1000 bar (1 bar) |
| Display range max.: | -19999 ... +19999 digit |
| Display unit: * | depends on measuring range selection and sensor: mbar, bar, Pa, kPa, MPa, mmHg, inHg, PSI, mH ₂ O |
| Measuring frequency: | 4 measurements / s or 1000 measurements / s with peak value memory |
| Average filter: | adjustable: 1 ... 120 s |
| Accuracy: | ±0.1 % FS ±1 digit |
| Connections | |
| Sensor: | 1 x 7-pole bayonet connector |
| Output / external supply: | 4-pole bayonet connector for serial interface, supply (with accessories: USB adapter USB 5100) |
| Display: | 4 ½ digit 7-segment, illuminated (white) |
| Operating conditions: | -25 ... +50 °C, 0 ... 95 % RH (non-condensing) |
| Storage temperature: | -25 ... +70 °C |
| Power supply: | 2 x AAA-battery, battery life 500 h (without illumination, 4 measurings / s) |
| Housing: | impact resistant ABS housing with pop-up clip |
| Protection class: | IP65 / IP67 |
| Dimensions: | 160 x 86 x 37 mm (H x W x D) incl. silicone protection cover (red) |
| Weight: | approx. 250 g incl. battery and protection cover |
| Scope of supply: | Device, battery, calibration protocol, manual |

| Specifications: | GMH 5150 and GMH 5155 |
|----------------------------------|--|
| Sensor connections: | 1, GMH 5155: 2 |
| Suitable probes: | GMSD / MSD sensors, available ranges (resolutions) from -1.999 ... 2.500 mbar (0.001 mbar) to 0 ... 1000 bar (1 bar) |
| Display range max.: | -19999 ... +19999 digit |
| Display unit: | depends on measuring range selection and sensor: mbar, bar, Pa, kPa, MPa, mmHg, inHg, PSI, mH ₂ O, user |
| Measuring frequency: | 4 measurements / s or 1000 measurements / s with peak value memory |
| Average filter: | adjustable: 1 ... 120 s |
| Accuracy: | ±0.1 % FS ±1 digit |
| Connections | |
| Sensor: | 1 x 7-pole bayonet connector GMH 5155 only: 2 x 7-pole bayonet connector |
| Output / external supply: | 4-pole bayonet connector for serial interface, supply (with accessories: USB adapter USB 5100) |
| Analog output: | 0 ... 1 V, freely adjustable, connection with 4-pole bayonet connector, resolution 12 bit |
| Display: | 4 ½ digit 7-segment, illuminated (white) |
| Operating conditions: | -25 ... +50 °C, 0 ... 95 % RH (non-condensing) |
| Storage temperature: | -25 ... +70 °C |
| Power supply: | 2 x AAA-battery, battery life 500 h (without illumination, 4 measurings / s) |
| Housing: | impact resistant ABS housing with pop-up clip |
| Protection class: | IP65 / IP67 |
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| Weight: | approx. 250 g incl. battery and protection cover |
| Scope of supply: | Device, battery, calibration protocol, manual |

Additional functions:

Additional Display for Battery: Bar graph display

Background Illumination: duration adjustable (off, 5 s ... 2 min.)

Adjustment: offset / slope adjustable in menu

User-defined displayed unit: (user, GMH 5150/55)
conversion to any unit with help of linear factor

Leakage test function (GMH 5150/55):
leak rate display, leak rate alarm (/s, /min, /h)

Air velocity / flow volume (GMH 5150/55):
Pitot tube measurement (accessories)

peak-detect (Peak value memory):
The min- / max- value memory stored unfiltered pressure peaks ≥ 1 ms

Logger function:
with measuring point input, adjustable cycle time: 1 s ... 1 h, recording time: 416 days at intervall 1 h, data logger: cyclic: 10.000 data sets (GMH 5150), 8.000 data sets (GMH 5155); manual: 1.000 data sets (with measuring point input, 40 adjustable measuring point texts or measuring point numbers)

* = Note to the pressure unit selection:

The choice of a specific pressure unit is possible, if its whole measuring range is displayable within the display of the device and the sensor is supporting these resolution.