WATERPROOF PORTABLE INSTRUMENT FOR MEASURING PRESSURE WITH EXTERNAL INTERCHANGEABLE SENSORS

U**to**of

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GMH 5130/50



TECHNICAL

GMH 5155

HIGHLIGHTS:

• Peak value acquisition (1000 measurements/s)

- Large double backlit display
- Pressure sensors already calibrated and fully interchangeable
- Incl. test protocol

ADDITIONAL FUNCTIONS OF GMH 5150 AND 5155:



GMH 5150 AND GMH 5155

WITH THE GMH 5155 ADDITIONALLY:

• 2 GMSD/MSD sensors can be attached.

• Differential pressure measurement of two sensors

WATERPROOF - DEVICE AND PLUG CONNECTIONS

GMH 5130

Item No. 600027 Waterproof Portable instrument for measuring pressure with 1 sensor connection, without sensor

GMH 5150

Item No. 600031

Waterproof Portable instrument for measuring pressure with 1 sensor connection, analog output and data logger, without sensor

GMH 5155

Item No. 600033

Waterproof portable pressure instrument with 2 sensor connections, analog output and data logger, without sensor

GENERAL:

The potable instrument for interchangeable sensors supports you in demanding pressure measuring tasks. Extremely robust plug connections, the silicone protective cover, background lighting and the waterproof construction also allow use in harsh industrial and field conditions.

APPLICATION:

Industry and trade, HVAC: heating, ventilation, air conditioning

Leak tests / pressure tests

 Chimney draft measurement: negative pressure, tightness tests on buildings(e.g.: 4 pascal test) · Measurements on gas and oil firing

Automotive trade, hydraulic analysis (pressure surges)

TECHNICAL SPECIFICATIONS:	GMH 5130
Sensor connections:	1
Usable sensors:	GMSD/MSD sensors, available measuring ranges (resolution) from -1.9992.500 mbar (0.001 mbar) to 01000 bar (1 bar)
max. display range:	-19999 + 19999 digit
Display units: *	depending on the measuring range selection (sensor-dependent): mbar, bar, Pa, kPa, MPa, mmHg, inHg, PSI, mH $_2$ O
Measuring fre- quency:	4 measurements/s or 1000 measurements/s with peak value memory
Average filter:	adjustable: 1120 s
Accuracy:	\pm 0.1 % FS \pm 1 digit
connections	
Sensor:	1 x 7-pole bayonet connection
Output/ext. Care:	4-pole bayonet connection for serial interface, supply (with accessories: USB adapter USB 5100)
Display:	4½-digit 7-segment, illuminated (white)
Working conditions:	-25 + 50 °C, 095 % r. F. (not condensing)
Storage temperature:	-25 + 70 °C
Power supply:	2 x AAA batteries, battery life 500 h (without lighting, 4 measurements/s)
Housing:	impact-resistant ABS, with stand-up/hanging bracket
Protection class:	IP65/IP67
Dimensions:	160 x 86 x 37 mm (H x W x D) including silicone protective cover (red)
Dimensions: Weight:	160 x 86 x 37 mm (H x W x D) including silicone protective cover (red) approx. 250 g including battery and protective cover

SPECIFICATIONS:	
Sensor connections:	1, GMH 5155: 2
Usable sensors:	GMSD/MSD sensors, available measuring ranges (resolution) from -1.9992.500 mbar (0.001 mbar) to 01000 bar (1 bar)
max. display range:	-19999 + 19999 digit
Display units:	depending on the measuring range selection (sensor-dependent): 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: 1120 s
Accuracy:	± 0.1 % FS ± 1 digit
connections	
Sensor:	1 x 7-pole bayonet connection only GMH 5155: 2 x 7-pole bayonet connection
Output/ext. Care:	4-pole bayonet connection for serial interface, supply (with accessories: USB adapter USB 5100)
Analog output:	01 V, freely scalable, connection via 4-pole bayonet socket, resolution 12 bit
Display:	41/2-digit 7-segment, illuminated (white)
Working conditions:	-25 + 50 °C, 095 % r. F. (not condensing)
Storage temperature:	-25 + 70 °C
Power supply:	2 x AAA batteries, battery life 500 h (without lighting, 4 measurements/s)
Housing:	impact-resistant ABS, with stand-up/hanging bracket
Protection class:	IP65/IP67
Dimensions:	160 x 86 x 37 mm (H x W x D) including silicone protective cover (red)
Weight:	approx. 250 g including battery and protective cover
Scope of delivery:	Device, battery, test report, operating instructions

ADDITIONAL FUNCTIONS: Status display for battery: bar graph Background lighting: duration adjustable (off, 5 s..2 min.) Adjustment: Zero point/slope adjustable via menu

User-defined display unit: (user, GMH 5150/55) conversion into any units using a linear factor

Leak test/tightness test (GMH 5150/55):

Display of the rate of pressure change (/ s,/min,/h) with alarm function

Air velocity/volume flow (GMH 5150/55): measurement with a pitot tube (accessory) peak-detect (peak value memory):

Unfiltered pressure peaks ≥1 ms are recorded in the min/max value memory. Data logger:

with measuring point input, recording interval: 1 s..1 h Recording duration: 416 days with an interval of 1 h, measured value memory: Cyclical: 10,000 data records (GMH 5150), 8,000 data records (GMH 5155), single: 1,000 data records (40 adjustable measuring point texts or measuring point numbers)

* = Note on setting the pressure units: different pressure units can only be selected if the entire measuring range of this unit can also be shown on the display and the sensor also supports this resolution.

ACCESSORIES

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GMH 3111 Item No. 600374

GMH 3111-EX Item No. 600380

max. display range:

Measuring range:

Accuracy: (device)

Pressure units: *

Sensor connection:

serial interface:

Power supply:

Sensor adjustment:

Working conditions:

Measuring cycle:

Battery life:

Housing:

Dimensions:

Scope of delivery:

Weight:

Display:

Output:

Overload:

Resolution:

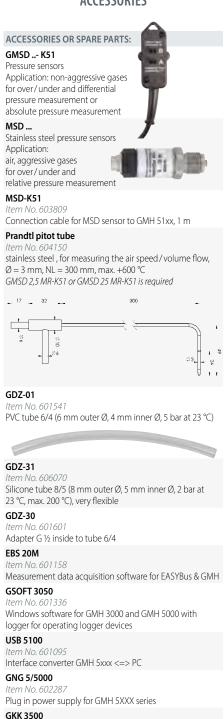
Portable pressure instrument with

Portable pressure instrument with

TECHNICAL SPECIFICATIONS:

1 sensor connection, without sensor, Ex

1 sensor connection, without sensor



Item No. 601052 Device case with soft cutouts e.g. 2x GMH 3000 or 5000, 395 x 295 x 106 mm (W x H x D)

PORTABLE PRESSURE MEASURING DEVICES

CFERSINGER

-19999 .. + 19999 digit

temperature = 25 °C)

a button

depending on the sensor used

depending on the sensor used

depending on the sensor used

± 0.1 % FS ± 1 digit (at nominal

mbar, bar, Pa, kPa, MPa, mmHg,

1 sensor socket 6-pole shielded

mini-DIN socket with locking for

GMSD/MSD sensors. Automatic

ing measuring range setting.

2 x 41/2-digit LCD

interface

USB 3100 N

GNG10/3000)

approx. 120 h -25 + 50 °C 0 95 % RH

approx. 150 g,

with GMH3111-EX:

4 measurements / s

with GMH 3111-EX: -10 .. + 50 °C, 0..95 % RH Made of impact-resistant ABS,

membrane keyboard, transparent panel only with GMH 3111: Integrated stand-up/ hanging bracket

142 x 71 x 26 mm (H x W x D)

approx. 190 g (including bag)

Device, battery, test report, operating instructions

sensor recognition and correspond-

Can be connected directly to the

RS232 or USB interface of a PC via

the galvanically isolated interface

converter GRS 3100, GRS 3105,

9 V battery, power supply socket

for external 10.5.,12 V DC voltage

digital offset and slope input

supply (suitable power supply unit:

PSI, mH₂O, switchable by pressing

HIGHLIGHTS:

- One device for any pressure measuring range (2.500 mbar..1000 bar)
- Pressure sensors already calibrated and fully interchangeable



NOTES ON EX VERSIONS:

Technical changes compared to the standa device (applies to all GMH31xx-EX)

Ex approval: 🐼 II 2 G Ex ib IIC T4 Gb Certificate: EPS 09 ATEX 1 227 X

Standards:

The device fulfills the standards for electrical equipment for potentially explosive areas according to EN 60079-0: 2012, EN 60079-11-2012

Sensor:

(GMH 3111-EX, GMH 3151-EX, GMH 3156-EX) All GMSD/MSD sensors with the "Ex version" option can be used.

Interface:

usable interface converters are USB 3100 N, GRS 3100 and GRS 3105

Note: Operation of the interface and the analog output is not permitted in the Ex area!

Working temperature: -10 .. + 50 °C

Power supply:

9 V battery, mains socket

Note: The use of the power supply socket is not permitted in the Ex area! Only power supply units of the type GNG10/3000 may be used!

Alarm function:

(GMH 3151-EX, GMH 3156-EX, GMH 3181-EX) The device has no sounder, in the alarm setting only the setting "no.so" and "off" are available

Scope of delivery:

The device is delivered with a leather case.



* Note on setting the pressure units: (applies to all GMH 31xx). The selection of different pressure units is only possible if the entire measuring range of this unit can also be shown on the display and the sensor also supports this resolution.