

PORTABLE PRESSURE MEASURING INSTRUMENT WITH DATA LOGGER



LOGGER FUNCTION



GMH 3151



GMH 3156

HIGHLIGHTS:

- 4½-digit display, sensors with higher resolution on request
- Peak value memory 1000 measurements/s
- Analog output 0.1 V
- Digitally adjustable
- Integrated alarm sounder

WITH THE GMH3156 ADDITIONALLY:

- 2 GMSD/MSD sensors can be attached.
- Differential pressure measurement of two sensors

GMH 3151

Item No. 600381

Portable pressure instrument with 1 sensor connection, logger, without sensor

GMH 3156

Item No. 600386

Portable pressure measuring instrument with 2 sensor connections, logger, without sensor

GMH 3151-EX

Item No. 600383

Portable pressure measuring instrument with 1 sensor connection, logger, without sensor, Ex (notes on Ex versions on the previous page)

GMH 3156-EX

Item No. 600394

Portable pressure measuring instrument with 2 sensor connections, logger, without sensor, Ex (notes on Ex versions on the previous page)

TECHNICAL SPECIFICATIONS:

max. display range:	-19999 .. + 19999 digit
Measuring range:	depending on the sensor used
Overload:	depending on the sensor used
Resolution:	depending on the sensor used
Accuracy (device):	± 0.1 % FS ± 1 digit (at nominal temperature = 25 °C)
Pressure units *:	mbar, bar, Pa, kPa, MPa, mmHg, PSI, mH ₂ O, switchable by pressing a button
Sensor connection:	1, for GMH 3156 / -EX: 2 6-pole shielded mini-DIN socket (s) with locking for GMSD/MSD sensors, automatic sensor recognition and corresponding measuring range setting.
Display:	2 x 4½-digit LCD
Output:	Interface or AAG
serial interface:	Can be connected directly to the RS232 or USB interface via a galvanically isolated interface converter, GRS 3100 or GRS 3105 or USB 3100 N.
Analog output:	0.1 V, freely scalable (resolution 12 bit)
Power supply:	9 V battery, power supply socket for external 10.5..12 V DC voltage supply (e.g. GNG10/3000)
Sensor adjustment:	digital offset and slope input
Measurement cycle: "slow"	4 measurements/s
"Fast" / "peak-detect"	≥ 1000 measurements/s
Peak value memory:	Unfiltered pressure peaks ≥ 1 ms are recorded in the min / max value memory.
Logger functions	
manual records:	99 records
cyclic data sets:	10000 GMH 3156 / -EX: 4000 (max. 64 recording series)
adjustable cycle time:	1..3600 s
Averaging calculation:	x
Battery life:	approx. 180 h (4 measurements/s) approx. 40 h (1000 measurements/s)

Working conditions:

-25 .. + 50 °C, 0.95 % RH (non-condensing),
with GMH 315x-EX: -10 .. + 50 °C, 0.95 % RH (non-condensing)

Housing:

Made of impact-resistant ABS, membrane keyboard, transparent panel
only with GMH315x-EX:
integrated pop-up clip

Dimensions:

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

Weight:

approx. 150 g,
with GMH 315x-EX: approx. 190 g (including bag)

Scope of delivery:

Device, battery, test report, operating instructions

ADDITIONAL FUNCTIONS:

Averaging calculation:

The measured values are integrated over an adjustable time and the averaged display value is output.

SeaLevel correction:

When an absolute pressure sensor is plugged in, the barometric air pressure can also be displayed in relation to sea level "zero". (The air pressure is corrected by entering the altitude above "zero" in meters)

Logger functions:

- manual data records: 99 data records
- cyclic data sets: 10000 (GMH 3151)
4000 (GMH 3156)

(max. 64 recording series), adjustable cycle time: 1..3600 s; The logger is started and stopped via the keyboard or interface. An easy-to-use software GSOFTE 3050 (see accessories) is available for reading-out the logger data.

* 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.

ACCESSORIES

ACCESSORIES OR SPARE PARTS:

GMSD ...

Pressure sensors with plastic tube connections for Ø 6mm hoses

MSD ...

Stainless steel pressure sensors
Area of application:
Air, aggressive gases for over / under and relative pressure measurement

MSD-K31

Item No. 600657

Connection cable for MSD sensor to GMH 31xx, 1 m

