

## PRESSURE MEASURING DEVICE WITH LOGGER



## LOGGER FUNCTION



GMH 3151



GMH 3156

## HIGHLIGHTS:

- 4½-digit display, probes with higher resolution up on request
- Peak value memory 1000 measurements / s
- Analog output 0 ... 1 V
- Digital adjustable
- Integrated horn

## ADDITIONAL FUNCTIONS GMH 3156:

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

SUITABLE PRESSURE PROBES  
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**GMH 3151**

Art. no. 600381

Hand-held pressure measuring device with 1 sensor input, logger, without sensor

**GMH 3156**

Art. no. 600386

Hand-held pressure measuring device with 2 sensor inputs, logger, without sensor

**GMH 3151-EX**

Art. no. 600383

Hand-held pressure measuring device with 1 sensor input, logger, without sensor, Ex (see previous page for information on Ex versions)

**GMH 3156-EX**

Art. no. 600394

Hand-held pressure measuring device with 2 sensor inputs, logger, without sensor, Ex (see previous page for information on Ex versions)

**Specifications:**

<b>Max. display range:</b>	-19999 ... +19999 digit
<b>Measuring range:</b>	corresponding to used probe
<b>Overload:</b>	corresponding to used probe
<b>Resolution:</b>	corresponding to used probe
<b>Accuracy (device):</b>	±0.1 % FS ±1 digit (at nominal temperature = 25 °C)
<b>Pressure units*:</b>	mbar, bar, Pa, kPa, MPa, mmHg, PSI, mH <sub>2</sub> O, can be selected.
<b>Probe connection:</b>	1, <b>GMH 3156/-EX:</b> 2 6-pin screened lockable Mini-DIN-socket(s) for GMSD/MSD-sensors. Automatic probe detection and setting of measuring range upon plugging in of probe.
<b>Display:</b>	2 x 4½ digit LCD
<b>Output:</b>	serial interface or AAG
<b>Serial interface:</b>	direct connection to RS232 or USB interface of a PC via electrically isolated interface converter GRS 3100, GRS 3105 or USB 3100 N.
<b>Analog output:</b>	0 ... 1 V, freely adjustable (resolution 12 bit)
<b>Power supply:</b>	9 V-battery, d.c. connector * for external 10.5 ... 12 V direct voltage supply. (i. e. GNG10/3000)
<b>Sensor adjustment:</b>	digital offset and scale input
<b>Measuring cycle: „slow“</b>	4 measurements / s
<b>„fast“ / „peak-detect“</b>	≥1000 measurements / s
<b>peak-detect:</b>	The min- / max- value memory stored unfiltered pressure peaks ≥1 m

**Logger functions**

<b>manually data sets:</b>	99 data sets
<b>cycle data sets:</b>	10000 <b>GMH 3156/-EX:</b> 4000 (max. 64 recording sequences)

**adjustable cycle time:** 1 ... 3600 s

**Averaging function:** x

**Battery life:** approx. 180 h (4 measurements / s)  
approx. 40 h (1000 measurements / s)

**Operating conditions:** -25 ... +50 °C, 0 ... +95 % RH (non-condensing),  
**GMH 315x-EX:**  
-10 ... +50 °C, 0 ... 95 % RH (non-condensing)

**Housing:** impact-resistant ABS plastic housing, foil keypad, clear viewing pane  
**GMH315x-EX only:**  
pop-up clip for table top or suspended use.

**Dimensions:** 142 x 71 x 26 mm (H x W x D)

**Weight:** approx. 150 g,  
**GMH 315x-EX:** approx. 190 g (incl. case)

**Scope of supply:** Device, battery, calibration protocol, manual

**Additional functions:**

**Averaging function:** integrates the meas. values during a selectable period of time and then calculates the average display value.

**Sea-Level-correction:** when connecting an abs. pressure probe the barom. air pressure can also be displayed corrected to sea level, „zero“. (Air pressure compensation achieved by entering the meters above sea level, „zero“)

**Logger Functions:**

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

(max. 64 Aufzeichnungsreihen), adjustable cycle time: 1 ... 3600 s; The logger is started or stopped by keypad or interface. The software GSOFT3050 (see accessories) is available for comfortable read-out of logger data.

**\* Note to the pressure unit selection: (information for all GMH 31xx)**

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.