

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
p.r.t. p. 76/77

GMH 3151

Art. no. 600381

Pressure measuring device with 1 sensor connection, analog output and data logger, without sensor

GMH 3156

Art. no. 600386

Pressure measuring device with 2 sensor connections, analog output and data logger, without sensor

GMH 3151-EX

Art. no. 600383

EX-Pressure measuring device with 1 sensor connection, analog output and data logger, without sensor

GMH 3156-EX

Art. no. 600394

EX-Pressure measuring device with 2 sensor connections, analog output and data logger, without sensor

Specifications:

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

manually data sets:	99 data sets
cycle data sets:	10000, GMH 3156/-ex: 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)
Working 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. GMH315x only: pop-up clip for table top or suspended use.
Dimensions:	142 x 71 x 26 mm
Weight:	approx. 150 g, GMH 315x-ex: approx. 190 g (incl. case)
Scope of supply:	Device, battery, calibration protocol, manual

* refer to note to EX-design types at page before

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 recording sequences), 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.

**** Hinweis zur Druckeinheiten-Einstellung: (für alle GMH 31xx gültig)**

Die Auswahl unterschiedlicher Druckeinheiten ist nur dann möglich, wenn sich der gesamte Messbereich dieser Einheit auch auf dem Display darstellen lässt und der Sensor auch diese Auflösung unterstützt.