

Hand-held pressure measuring device



FUNCTIONS:



HIGHLIGHTS:

- one device for any measuring range (2.500 mbar ... 1000 bar)
- serial interface

PROBES FOR FOLLOWING PRESSURE RANGES ARE AVAILABLE:

- relative pressure 2.500 mbar ... 1000 bar rel.
- pressure difference 2.500 mbar ... 10.00 bar
- absolute pressure 1300 mbar ... 35.00 bar
- special meas. ranges upon request

**CALIBRATED AND FULLY
INTERCHANGEABLE
PRESSURE PROBES**

Suitable pressure probes
p.r.t.p. 62/63

GMH 3111

device with 1 sensor connection, without sensor

GMH 3111 - ex


device with 1 sensor connection, without sensor, ex

Specification:	GMH 3111
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 sensor socket 6-pin 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:	interface
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.
Power supply:	9 V-battery, d.c. connector for external 10.5-12 V direct voltage supply. (suitable power supply: GNG10/3000)
Sensor adjustment:	digital offset and scale input
Measuring cycle:	4 measurements / s
Power consumption:	approx. 1.6 mA
Working condition:	-25 ... 50 °C, 0 ... 95 % RH, GMH 3111-ex: -10 ... 50 °C, 0 ... 95 % RH
Housing:	impact-resistant ABS plastic housing, Front side IP65 GMH 3111 only: integrated pop-up clip for table top or suspended use.
Dimensions:	142 x 71 x 26 mm
Weight:	approx. 150 g, GMH3111-ex: approx. 190 g (incl. leather case)
Scope of supply:	Device, battery, manual

* 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.

Note to Ex- design types:

Technical changes compared to standard instrument (valid for all GMH31xx - ex)

Ex qualification:  II 2 G Ex ib IIC T4 Gb

Ref. document: EPS 09 ATEX 1 227 X

Standards:

The device meets the standards for electric resources in explosion endangered areas according to EN 60079-0 : 2012, EN 60079-11 : 2012

Probe:

(GMH 3111 - ex, GMH 3151 - ex, GMH 3156 - ex) All GMSD sensors with option ‚Ex type‘ can be used.

Interface:

suitable interface adapter are USB 3100 N, GRS 3100 and GRS 3105

Please note:

The operation of the interface is not allowed within the Ex area!

Working temperature: -10 ... +50 °C

Power supply: 9 V-battery, d.c. connector

Please note:

the use of d.c. connector is not allowed within the Ex area!
Just d.c. connectors of type GNG10/3000 can be used.

Alarm function:

(GMH 3151 - ex, GMH 3156 - ex, GMH 3181 - ex)
The device is without a horn, in the alarm settings are only the parameter „no.so“ and „off“ adjustable.

Scope of supply:

device with associated leather case.

