

# Hand-held pressure measuring device

## GMH 3111


- ▶ **one** device for any measuring range (2.5 mbar ... 1000 bar)
- ▶ **calibrated and fully interchangeable pressure probes**
- ▶ **tara, hold function, min-/max-value memory, ready for bus operation**



Probes for following pressure ranges are available:

- relative pressure 2,50 mbar ... 1000 bar rel.
- pressure difference 0,00 bar ... 10,00 bar
- absolute pressure 0,00 bar ... 35,00 bar
- special measuring ranges upon request

**GMH 3111** (probes not included)

**GMH 3111 - ex** ( device without probe)

*suitable pressure probes page 42 / 43*

Specification:	GMH 3111	GMH 3111-ex
<b>max. display range:</b>	-19999 ... +9999 Digit	-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 ±1Digit (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 sensor socket	1 sensor socket <i>6-pin screened lockable Mini-DIN-socket(s) for GMSD/MSD-sensors. Automatic probe detection and setting of meas. range upon plugging in of probe.</i>
<b>Display:</b>	2 x 4½-digit LCD	2 x 4½-digit LCD
<b>Output:</b>	serial interface	serial interface
<b>- serial interface:</b>	direct connection to RS232 or USB interface of a PC via interface converter GRS 3100, GRS 3105 or USB 3100 N (accessories).	
<b>- analog output:</b>	--	--
<b>Power supply:</b>	9V-battery, d.c. connector	9V-battery, d.c. connector <i>suitable 9V-battery (type IEC 6F22) in scope of supply, d.c. connector for external 10.5-12V direct voltage supply. (suitable power supply: GNG10/3000)</i>
<b>Sensor adjustment:</b>	digital offset and scale input	digital offset and scale input
<b>Tare, hold, min/max value:</b>	<b>X</b>	<b>X</b>
<b>Peak value memory:</b>	--	--
<b>Measuring cycle:</b>	4 measurements / s	4 measurements / s
<b>Logger functions:</b>	--	--
<b>Averaging function:</b>	--	--
<b>Min-/max-alarm:</b>	--	--
<b>Power consumption:</b>	approx. 1,6 mA	max. 1,6 mA
<b>Working condition:</b>	-25 ... 50°C, 0 ... 95%RH	-10 ... 50°C, 0 ... 95%RH
<b>Power-Off-function:</b>	1...120 min (can also be deactivated).	
<b>Housing dimensions:</b>	142 x 71 x 26 mm, impact-resistant ABS plastic housing, Front side IP65 integrated pop-up clip for table top or suspended use.	Front side IP65
<b>Weight:</b>	approx. 150 g	approx. 190 g (incl. case)

### 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

**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 : 2006, EN 60079-11 : 2007

**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, GRS3100 and GRS3105

*Please note: the operation of the interface is not allowed within the Ex area!*

**Working temperature:** -10 to +50°C

**Power supply:** 9V-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.

### Note to the pressure unit selection:

*(information for all GMH31xx)*

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 support these resolution.