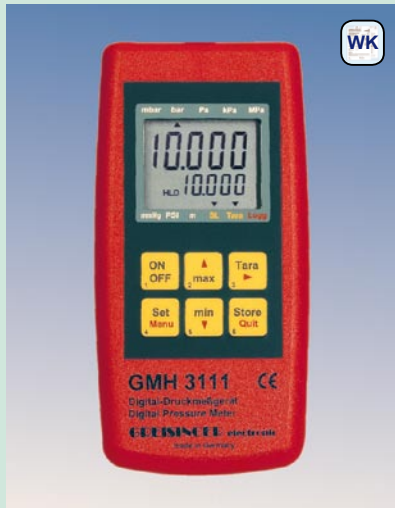


# Hand-held pressure meas. device to set standards!

## GMH 3111

- ▶ **one** device for any measuring range (2.5 mbar ... 400 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 mbar: 2.500 / 25.00 / 350.0 / 2000 / 3500  
bar: 10.00
- pressure difference mbar: 2.500 / 25.00 / 350.0 / 2000 / 3500  
bar: 10.00
- absolute pressure mbar: 1000 / 1300 / 2000 / 3500 / 7000  
bar: 7.00 / 35.00 / 70.0 / 160.0 / 250.0 / 400.0
- special measuring ranges upon request

**GMH 3111** (probes not included - for probes please refer to page 22/23)

**GMH 3110 - ex** (EEx ib IIC T4 / probe not included - for probes p.r.t. page 22/23)

Specification:	GMH3110-ex	GMH3111
<b>max. display range:</b>	-1999 ... +9999 Digit	-19999 ... +19999 Digit
<b>Measuring range:</b>	corresponding to used probe	corresponding to used probe
<b>Overload:</b>	corresponding to used probe	corresponding to used probe
<b>Resolution:</b>	corresponding to used probe	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, m, can be selected.	
<b>Probe connection:</b>	1 sensor socket	1 sensor socket
	6-pin screened lockable Mini-DIN-socket(s) for GMSD-sensors. Automatic probe detection and setting of meas. range upon plugging in of probe.	
<b>Display:</b>	2 x 4-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 adapter GRS3100, GRS3105 or USB3100 (accessories).	
<b>- analog output:</b>	--	--
<b>Power supply:</b>	9V-battery	9V-battery, d.c. connector
	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)	
<b>Sensor adjustment:</b>	zero point adjustment at keypress	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. 3mA (incl. sensor)	max. 1.6mA (incl. sensor)
<b>Working condition:</b>	0 ... 50°C, 0 ... 95%RH	-25 ... 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.
	--	
<b>Weight:</b>	approx. 190 g (incl. case)	approx. 150 g

### Note to Ex- design types:

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

**Ex qualification:** Ex II 2 G EEx ib IIC T4

**Ref. document:** ZELM 03 ATEX 0136 X

**Standards:** The device meets the standards for electric resources in explosion endangered areas according to EN 50 014:1997+A1+A2, EN 50 020:1994

**Probe:** (GMH3110-ex, GMH3150-ex)  
All GMSD sensors with option 'Ex type' can be used.

**Interface:** suitable interface adapter are GRS3100 and GRS3105

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

**Working temperature:** 0 to +50°C

**Power supply:** 9V-battery, type IEC 6F22

*Please note:* the device does not have a dc connector for external power supply!

**Alarm functionality:** (only GMH3150-ex, GMH3180-...-ex)

*Please note:* a acoustic alarm is not integrated !

**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.