

MANOMETER for over/under pressure and pressure difference.

VAKUUM- or BAROMETER



MEASURING RANGE
...-13: -100 ... 2000 MBAR



FOR MEASURING OF ABSOLUTE PRESSURE
MEASURING RANGE: 0 ... 1300 MBAR ABS.

GMH 3161-13

Device -100 ... 2000 mbar (± 2000 mbar ¹⁾)

GMH 3181-13

Device -100 ... 2000 mbar (± 2000 mbar ¹⁾), with data logger

Option:

MB -1...2 BAR

measuring range: -1000 ... 2000 mbar ²⁾

Specification:

Measuring range:	-100 ... 2000 mbar (optional: -1000 ... 2000 mbar)
Overload:	max. 4 bar
Resolution:	1 mbar
additional pressure units:	bar, kPa, MPa, PSI, mmHg, mH ₂ O
Accuracy: (typ. values)	
hysteresis and linearity:	± 0.2 % FS
temperature-influence from 0-50 °C:	± 0.4 % FS
Option higher accuracy available:	yes
Sensor:	integrated piezo-resistive absolute pressure sensor. Suitable for air and non aggressive. (Note: sensor is not suitable for water!)
Pressure connection:	2 universal pressure nozzles for 6 x 1 mm (4 mm hose inner diameter) or 8 x 1 mm (6 mm hose inner diameter) plastic hoses

For type specific data please refer to page 64.

¹⁾ measuring range possible by changing the pressure connection ports

²⁾ without changing the pressure connection ports

Options:

Higher sensor accuracy

by multi point calibration
Note: not possible for all device types!

Certificate of calibration WPD5

(f. ISO9000 ff.) incl. several calibration points of sensor (stored in device memory), Certificate of calibration: 5 points increase, 5 points decrease.

Certificate of calibration WPD10

(f. ISO9000 ff.) incl. several calibration points of sensor (stored in device memory), Certificate of calibration: 10 points increase, 10 points decrease.

Special design type:



Ex-protection (II 2 G Ex ib IIC T4 Gb) device type with Ex-protection

GMH 3161-12

Device 0 ... 1300 mbar abs.

GMH 3181-12

Device 0 ... 1300 mbar abs., with data logger

Specification:

Measuring range:	0 ... 1300 mbar abs.
Overload:	max. 4 bar abs.
Resolution:	1 mbar
Pressure units:	mbar, bar, kPa, MPa, PSI, mmHg, mH ₂ O
Accuracy: (typ. values)	
hysteresis and linearity:	± 0.2 % FS
temperature-influence from 0-50 °C:	± 0.4 % FS
Option higher accuracy available:	yes
Sensor:	integrated piezo-resistive absolute pressure sensor. Suitable for air and non aggressive gases. (Note: sensor is not suitable for water!)
Pressure connection:	1 universal pressure nozzles for 6 x 1 mm (4 mm hose inner diameter) or 8 x 1 mm (6 mm hose inner diameter) plastic hoses

For type specific data please refer to page 64.

Special function:

SeaLevel-correction:

The barometric air pressure can also be related to sea level „zero“. (Correction of air pressure is achieved by entering m above „zero“)

Accessories and spare parts:

GNG 10/3000

plug-in power supply

GRS 3100

interface converter, RS232, electrically isolated

USB 3100 N

interface converter, USB, electrically isolated

GDZ-01

PVC-tube (5 bar) 6/4 (6 mm outside-Ø, 4 mm inside-Ø)

GDZ-08

Double adapter for 6/4 tube to 6/4 tube

GDZ-18

tube clamp for 6/4 tube

GDZ-21

T-piece for 6/4 tubes

GKK 3000

case (275 x 229 x 83 mm) with cut-outs for GMH3xxx for miscellaneous accessories p.r.t. pages 62 - 63