

A series of hand-held measuring devices with integrated sensor

Handheld instrument

Display / Controller

Logger / EASYBUS

Transmitter

Temperature probe

Alarm / Protection



- integrated pressure sensor
- sturdy metal connection pin
- tara function / zero point offset
- model with **Ex** - protection available

Additional features for GMH 3181:

- peak value memory (>1 ms)
- 2 logger functions
- analog output 0 - 1 V
- min-/max- alarm
- integrated horn



DIGITAL-VACUUM- / BAROMETER for measuring of absolute pressure.

GMH 3161-12 (device ready for operation)

GMH 3181-12 (device ready for operation)

0 ... 1300 mbar abs.

Version specific data: ... - 12

Measuring range:	0 ... 1300 mbar absolute
Overload:	max. 4 bar absolute
Resolution:	1 mbar
Pressure units:	mbar, bar, kPa, MPa, PSI, mmHg, m - freely select able
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-corrosive, non-ionising gases. (Note: sensor is not suitable for water!)
Pressure connection:	1 metal connection pin, made of brass, nickel plated, pressure tubes 6x1 mm (4 mm inside-Ø) can be connected

For type specific data please refer to page 25

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")

Options (upcharges)

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 (upcharges)

Ex-protection (Ex ib IIC T4) **Ex**
device type with Ex-protection
(please refer to notes at page 20)

Accessories:

- GNG 10/3000** plug-in power supply
- GKK 3000** case (275 x 229 x 83 mm) with cut-outs for GMH3xxx
- GRS 3100** interface converter, RS232, electrically isolated
- USB 3100** interface converter, USB, electrically isolated
- GDZ-01** PVC-tube (5bar) 6/4 (6mm outside-Ø, 4mm 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

for miscellaneous accessories
p.r.t. pages 22 - 23, 39 - 41

SENSORES E INSTRUMENTACION
GUEMISA S.L. (N.I.F.: B-87969416)
C\ De La Fundación 4 Bis - Planta 1º
Oficina-2
28522 Rivas Vaciamadrid (Madrid)
Telf. 91 764 21 00
ventas@guemisa.com

General function description:

Tare function: display value and the min./max values memorized can be set to zero.

Hold function: by pressing a button the current meas. value will be memorized.

Min./Max. value memory: memorizing of max. and min. values.

Serial interface: direct connection to RS232 or USB interface of a PC via electrically isolated interface adapter GRS3100, GRS3105 or USB3100.

Power-Off-function: device will be automatically switched of if no operating takes place for the time of the power-off delay.
Selectable values: off, 1 ... 120 min.

Peak value memory (peak-detect):
In the min-/max-value memory will be detected not filtered pressure peaks $\geq 10\text{msec}$ or $\geq 1\text{msec}$.

Logger operation: Logger start and stop via the keyboard or interface. Comfortable read-out and display software (GSOFT3050) available as additional equipment.

Low power logger mode: (only in measuring cycle "slow") Only one measurement carried out at the end of the respective logger cycle. The battery life is considerably prolonged.
For long-term recordings (eg. tightness).

Averaging function: integrates the meas. values during a selectable period of time and then calculates the average display value.

Min-/Max-alarm: the measuring value is constantly monitored if they remain within the min./max. limits set (deactivateable)

- **Alarm:** 3 different alarm settings
 - "off" - alarm function deactivated
 - "on" - visual alarm via display, interface alarm, alarm sounded via integrated horn.
 - "no.So." - visual alarm via display and interface alarm

- **Controlling function:** with the help of the switching module GAM3000 (optionally) electric equipment can be switched on/off or alarm monitored (p.r.t. page 41)