



DIGITAL-FINE MANOMETER
for over/under pressure and pressure difference.

GMH 3160-07

GMH 3180-07

-10,0 to 350,0 mbar (-350,0 ... 350,0 mbar)

Ex-protection: refer options page 24

Specification:

Meas. range: -10,0 to 350,0 mbar
(-350 ... +350,0 mbar)

Overload: max. 1 bar

Resolution: 0,1 mbar

Pressure units: mbar, bar, kPa, MPa, PSI, mmHg, m, freely selectable, can be chosen by pressing a button.

Accuracy: (typ. values)

±0,2%FS (hysteresis and linearity)

±0,4%FS (temperature-influence from 0-50°C)

Sensor: integrated piezoresistive relative pressure sensor. Suitable for air and non-corrosive, non-ionising gases and liquids. Note: sensor is not suitable for water.

Other data identical to GMH3160-01

Additional features for GMH3180-07:

Measuring cycle, Peak value memory, Low Power mode, Logger functions, Min-/Max-alarm, Alarm: p.r.t. GMH3180-01

GMH 3160-07B

-10,0 to 420,0 mbar (-7,5... 315,0 mmHg), incl. higher sensor accuracy

Specification:

Meas. range:

-10,0 to 420,0 mbar (±420,0 mbar) resp.

-7,5 to 315,0 mmHg (±315,0 mmHg)

Overload: max. 1 bar

Resolution: 0,1 mbar

Pressure units: mbar, bar, Pa, kPa, MPa, mmHg, PSI, m, freely selectable, can be chosen by pressing a button.

Accuracy: (typ. values)

±0,1%FS (hysteresis and linearity)

±0,4%FS (temperature-influence from 0-50°C)

Sensor: integrated piezoresistive relative pressure sensor. Suitable for air and non-corrosive, non-ionising gases and liquids. Note: sensor is not suitable for water.

Other data identical to GMH3160-01



DIGITAL-VACUUM or BAROMETER
for measuring of absolute pressure.

GMH 3160-12

GMH 3180-12

0 to 1300 mbar abs.

Ex-protection: refer options page 24

Specification:

Meas. range: 0 to 1300 mbar absolute

Overload: max. 4 bar abs.

Resolution: 1 mbar

Pressure units: mbar, bar, kPa, MPa, PSI, mmHg, m, freely selectable, can be chosen by pressing a button.

Accuracy: (typ. values)

±0,2%FS (hysteresis and linearity)

±0,4%FS (temperature-influence from 0-50°C)

Sensor: integrated piezoresistive absolute pressure sensor. Suitable for air and non-corrosive, non-ionising gases and liquids. Note: sensor is not suitable for water.

Please note: The barometric air pressure can also be related to sea level "zero". (Correction of air pressure is achieved by entering m above "zero").

Other data identical to GMH3160-01

Additional features for GMH3180-12:

Measuring cycle: 3 meas. functions at an interval of 4 meas. /sec. or >100 meas. /sec.

Peak value memory (peak-detect):

In the min-/max-value memory will be detected not filtered pressure peaks ≥ 10msec.

Low power mode: (only in meas. range "slow")

Only one measurement carried out at the end of the respective logger cycle.

Logger functions:

-manually: 99 data sets

-cycle: 9999 data sets

-adjustable cycle time: 1sec. ... 1h

Averaging Function: p.r.t. page 21

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

Alarm: 3 different alarm settings, via display, interface and integrated horn.

for additional information about functions
p.r.t. GMH3180-01 (page 24)



DIGITAL-FINE MANOMETER
for over/under pressure and pressure difference.

GMH 3160-13

GMH 3180-13

-100 to 2000 mbar (-2000 ... +2000 mbar)

Ex-protection: refer options page 24

Specification:

Meas. range: -100 to 2000 mbar
(-2000 ... +2000 mbar)

Overload: max. 4 bar abs.

Resolution: 1 mbar

Pressure units: mbar, bar, kPa, MPa, PSI, mmHg, m, freely selectable, can be chosen by pressing a button.

Accuracy: (typ. values)

±0,2%FS (hysteresis and linearity)

±0,4%FS (temperature-influence from 0-50°C)

Sensor: integrated piezoresistive relative pressure sensor. Suitable for air and non-corrosive, non-ionising gases and liquids. Note: sensor is not suitable for water.

Other data identical to GMH3160-01

Additional features for GMH3180-13:

Measuring cycle: you have a choice between 3 measuring functions:

"slow" = 4 measurements / sec.

"fast" ≥ 100 meas. / sec. (with filter)

"peak-detect" ≥ 100 meas. / sec.

Peak value memory (peak-detect):

In the min-/max-value memory will be detected not filtered pressure peaks ≥ 10msec.

Low power mode: (only in meas. range "slow")

Only one measurement carried out at the end of the respective logger cycle.

Logger functions:

-manually: 99 data sets

-cycle: 9999 data sets

-adjustable cycle time: 1sec. ... 1h

Averaging Function: p.r.t. page 21

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

Alarm: 3 different alarm settings, via display, interface and integrated horn.

for additional information about functions
p.r.t. GMH3180-01 (page 24)