

FINEST MANOMETER / MANOMETER for over/under pressure and pressure difference.



MEASURING RANGE: -500.0 ... +500.0 PA

GMH 3161-002

Device -500.0 ... +500.0 Pa (± 500.0 Pa^{*)})

GMH 3181-002

Device -500.0 ... +500.0 Pa (± 500.0 Pa^{*)}), Logger

Specification:	
Measuring range:	-500.0 ... +500.0 Pa (-5.000 ... +5.000 mbar)
Overload:	max. 250 hPa (mbar)
Resolution:	0.1 Pa (0.001 mbar)
additional pressure units:	kPa, PSI, mmHg, mH ₂ O
Accuracy: (typ. values)	
hysteresis and linearity:	0.3 %
temperature-influence from 0-50 °C:	0.4 %
Option higher accuracy available:	no
Sensor:	integrated piezo-resistive absolute pressure sensor. Suitable for air and non aggressive gas. (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



MEASURING RANGE ...-01: -100 ... 2500 PA
...-07H: -1.00 ... +70.00 MBAR

GMH 3161-01

Device -100 ... 2500 Pa (± 2500 Pa^{*)})

GMH 3181-01

Device -100 ... 2500 Pa (± 2500 Pa^{*)}), Logger

GMH 3161-07H

Device -1.00 ... 70.00 mbar (± 70.00 mbar^{*)})

GMH 3181-07H

Device -1.00 ... 70.00 mbar (± 70.00 mbar^{*)}), Logger

Specification:	... - 01	... - 07H
Measuring range:	-100 ... 2500 Pa (-1.00 ... 25.00 mbar)	-1.00 ... +70.00 mbar
Overload:	max. 100 mbar	max. 1000 mbar
Resolution:	1 Pa (0.01 mbar)	0.01 mbar
additional pressure units:	bar, kPa, PSI, mmHg, mH ₂ O	bar, Pa, kPa, PSI, mmHg, mH ₂ O
Accuracy: (typ. values)		
hysteresis and linearity:	± 0.3 % FS	± 0.1 % FS
temperature-influence from 0-50 °C:	± 0.4 % FS	± 0.4 % FS
Option higher accuracy available:	no	already integrated
Sensor:	integrated piezo-resistive absolute pressure sensor. Suitable for air and non aggressive gas. (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



MEASURING RANGES
...-07: -10.0 ... +350.0 MBAR
...-07B: -10.0 ... +420.0 MBAR

GMH 3161-07

Device -10.0 ... +350.0 mbar (± 350.0 mbar^{*)})

GMH 3181-07

Device -10.0 ... +350.0 mbar (± 350.0 mbar^{*)}), Logger

GMH 3161-07B

Device -10.0 ... 420.0 mbar (-7.5 ... 315.0 mmHg)

GMH 3181-07B

Device -10.0 ... 420.0 mbar (-7.5 ... 315.0 mmHg), Logger

Specification:	... - 07	... - 07B
Measuring range:	-10.0 ... +350.0 mbar	-10.0 ... +420.0 mbar (-7.5 ... 315.0 mmHg)
Overload:	max. 1 bar	max. 1 bar
Resolution:	0.1 mbar	0.1 mbar (0.1 mmHg)
additional pressure units:	bar, kPa, MPa, PSI, mmHg, mH ₂ O	bar, kPa, MPa, PSI, mH ₂ O
Accuracy: (typ. values)		
hysteresis and linearity:	± 0.2 % FS	± 0.1 % FS
temperature-influence from 0-50 °C:	± 0.4 % FS	± 0.4 % FS
Option higher accuracy available:	yes	already integrated
Sensor:	integrated piezo-resistive absolute pressure sensor. Suitable for air and non aggressive gas. (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

Special design type:



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