

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



NEW

MEASURING RANGE: -500.0 ... +500.0 Pa

**GMH 3161-002**Device -500.0 ... +500.0 Pa ( $\pm 500.0$  Pa <sup>1</sup>)**GMH 3181-002**Device -500.0 ... +500.0 Pa ( $\pm 500.0$  Pa <sup>1</sup>), Logger

Specification:	
<b>Measuring range:</b>	-5000 ... +500,0 Pa (-5.000 ... +5.000 mbar)
<b>Overload:</b>	max. 250 hPa (mbar)
<b>Resolution:</b>	0.1 Pa (0,001 mbar)
<b>additional Pressure units:</b>	kPa, PSI, mmHg, mH <sub>2</sub> O
<b>Accuracy: (typ. values)</b>	
<b>hysteresis and linearity</b>	0,3 %
<b>temperature-influence from 0-50 °C</b>	0,4 %
<b>Option higher accuracy available</b>	no
<b>Sensor:</b>	integrated piezo-resistive absolute pressure sensor. Suitable for air and non aggressive gas. (Note: sensor is not suitable for water!)
<b>Pressure connection:</b>	2 metal connection pins, made of brass, nickel plated, pressure tubes 6 x 1 mm (4 mm inside-Ø) can be connected

For type specific data please refer to page 56.

\*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 ( $\pm 2500$  Pa <sup>1</sup>)**GMH 3181-01**Device -100 ... 2500 Pa ( $\pm 2500$  Pa <sup>1</sup>), Logger**GMH 3161-07H**Device -1.00 ... 70.00 mbar ( $\pm 70.00$  mbar <sup>1</sup>)**GMH 3181-07H**Device -1.00 ... 70.00 mbar ( $\pm 70.00$  mbar <sup>1</sup>), Logger

Specification:		... - 01	... - 07H
<b>Measuring range:</b>		-100 ... 2500 Pa (-1.00 ... 25.00 mbar)	-1.00 ... +70.00 mbar
<b>Overload:</b>		max. 100 mbar	max. 1000 mbar
<b>Resolution:</b>		1 Pa (0.01 mbar)	0.01 mbar
<b>additional Pressure units:</b>		bar, kPa, PSI, mmHg, mH <sub>2</sub> O	bar, Pa, kPa, PSI, mmHg, mH <sub>2</sub> O
<b>Accuracy: (typ. values)</b>			
<b>hysteresis and linearity</b>		$\pm 0.3$ % FS	$\pm 0.1$ % FS
<b>temperature-influence from 0-50 °C</b>		$\pm 0.4$ % FS	$\pm 0.4$ % FS
<b>Option higher accuracy available</b>		no	already integrated
<b>Sensor:</b>		integrated piezo-resistive absolute pressure sensor. Suitable for air and non aggressive gas. (Note: sensor is not suitable for water!)	
<b>Pressure connection:</b>		2 metal connection pins, made of brass, nickel plated, pressure tubes 6 x 1 mm (4 mm inside-Ø) can be connected	

For type specific data please refer to page 56.

\*1 measuring range possible by changing the pressure connection ports

MEASURING RANGE:  
...-07: -10.0 ... +350.0 MBAR  
...-07B: -10.0 ... +420.0 MBAR**GMH 3161-07**Device -10.0 ... +350.0 mbar ( $\pm 350.0$  mbar <sup>1</sup>)**GMH 3181-07**Device -10.0 ... +350.0 mbar ( $\pm 350.0$  mbar <sup>1</sup>), 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
<b>Measuring range:</b>		-10.0 ... +350.0 mbar	-10.0 ... +420.0 mbar (-7.5 ... 315.0 mmHg)
<b>Overload:</b>		max. 1 bar	max. 1 bar
<b>Resolution:</b>		0.1 mbar	0.1 mbar (0.1 mmHg)
<b>additional Pressure units:</b>		bar, kPa, MPa, PSI, mmHg, mH <sub>2</sub> O	bar, kPa, MPa, PSI, mH <sub>2</sub> O
<b>Accuracy: (typ. values)</b>			
<b>hysteresis and linearity</b>		$\pm 0.2$ % FS	$\pm 0.1$ % FS
<b>temperature-influence from 0-50 °C</b>		$\pm 0.4$ % FS	$\pm 0.4$ % FS
<b>Option higher accuracy available</b>		yes	already integrated
<b>Sensor:</b>		integrated piezo-resistive absolute pressure sensor. Suitable for air and non aggressive gas. (Note: sensor is not suitable for water!)	
<b>Pressure connection:</b>		2 metal connection pins, made of brass, nickel plated, pressure tubes 6 x 1 mm (4 mm inside-Ø) can be connected	

For type specific data please refer to page 56.

\*1 measuring range possible by changing the pressure connection ports

\*2 without changing the pressure connection ports

**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 supporting these resolution.

Special design type:   
**Ex-protection (Ex II 2 G Ex ib IIC T4)**  
device type with Ex-protection