



Pressure sensors: for use with GMH311x, GMH315x and GDUSB1000

- Application:
- air and non-corrosive, non-ionising gases
 - non-corrosive and non-ionising gases liquids.
 - sensor are not suitable for water.

Relative pressure sensors: for measuring of over / under pressure and pressure difference

Specification:	GMSD 2,5 MR	GMSD 25 MR	GMSD 350 MR	GMSD 2 BR	GMSD 10 BR
Measuring range:	-1,999 ... +2,500 mbar	-19,99 ... +25,00 mbar	-199,9 ... +350,0 mbar	-1000 ... +2000 mbar	-1.00 ... +10.00 bar
Overload:	max. 200 mbar	max. 300 mbar	max. 1 bar	max. 4 bar	max. 10.34 bar
Resolution:	0,001 mbar (0,1 Pa)	0,01 mbar (1 Pa)	0,1 mbar	1 mbar	10 mbar
Accuracy: (typ. values)					
hysteresis and linearity	± 0,2 % FS	± 0,2 % FS	± 0,2 % FS	± 0,2 % FS	± 0,2 % FS
temperature influence from 0-50°C	± 1,0 % FS	± 0,5 % FS	± 0,4 % FS	± 0,4 % FS	± 0,4 % FS
Option higher accuracy available	no	no	yes	yes	yes
Sensor type:	relative pressure sensor	relative pressure sensor	relative pressure sensor	relative pressure sensor	relative pressure sensor

Absolute pressure sensors: for measuring of absolute pressure

Specification:	GMSD 1,3 BA	GMSD 2 BA	GMSD 7 BA
Measuring range:	0 ... 1300 mbar abs.	0 ... 2000 mbar abs.	0.00 ... 7,00 bar abs.
Overload:	max. 4 bar abs.	max. 4 bar abs.	max. 10,34 bar abs.
Resolution:	1 mbar	1 mbar	1 mbar
Accuracy: (typ. values)			
hysteresis and linearity	± 0,2 % FS	± 0,2 % FS	± 0,2 % FS
temperature influence from 0-50°C	± 0,4 % FS	± 0,4 % FS	± 0,4 % FS
Option higher accuracy available	yes	yes	yes
Sensor type:	absolute pressure sensor	absolute pressure sensor	absolute pressure sensor

General specification:

Sensor: piezoresistive pressure sensor.

Pressure connection: 2 connection pins for tubes 6 x 1 mm (6mm inside-Ø and 4mm outside-Ø)

Electronics: PC board with amplifier and data memory for sensor data (measuring. range/calibration etc.) integrated in sensor housing.

Working temperature: 0 ... +70 °C

Relative humidity: 0 ... +95 %RH (non-condensing)

Storage temperature: -40 ... +80 °C

Housing: ABS plastic with suspension eye, dimensions do not incl. conn. pin: 68 x 32,5 x 15 mm, dimensions with connection pin: 68 x 32,5 x 27,5 mm.

Device connection: 1m PVC connection cable, screened with integral 6-pin Mini-DIN-plug, lockable

Weight: approx. 75 g

Options, upcharges:

Special pressure ranges upon request

Probes for Ex-protection (EEx ib IIC T4)

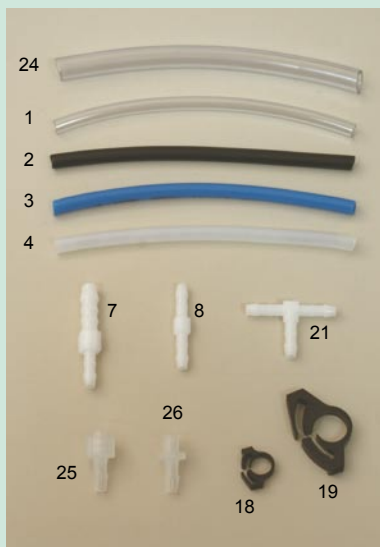
Higher probe accuracy by multi point calibration
Additional individual linearisation points are stored in sensor memory. (not possible for GMSD 2,5 MR and GMSD 25 MR !)

Certificate of calibration WPD5

(f. ISO9000 ff.) incl. several calibration points stored in probe calibration memory permanently, certificate of calibration: 5 point increase, 5 point decrease.

Certificate of calibration WPD10

(f. ISO9000 ff.) incl. several calibration points stored in probe calibration memory permanently, certificate of calibration: 10 point increase, 10 point decrease.



TUBE, TUBE CLIPS, ADAPTER, etc.

for GMH31xx, GMSD, GDH and pressure measuring transducers.

GDZ-01 = PVC-tube 6/4 (6 mm outside-Ø, 4 mm inside-Ø) (5bar)

GDZ-24 = PVC-tube 10/7 (10 mm outside-Ø, 7 mm inside-Ø) (5bar)

GDZ-02 = PE (polyethylene) 6/4 (6 mm outside-Ø, 4 mm inside-Ø) (10bar)

GDZ-03 = PU (polyurethane) 6/4 (6 mm outside-Ø, 4 mm inside-Ø) (9bar)

GDZ-04 = PAW (polyamide) 6/4 (6 mm outside-Ø, 4 mm inside-Ø) (25bar)

GDZ-07 = Double reducer for tubes with 6 inside-Ø to 6/4 tube

GDZ-08 = Double adapter for 6/4 tube to 6/4 tube

GDZ-18 = Tube clamp for 6/4 tube

GDZ-19 = Tube clamp for 8/6 tube (8mm outside-Ø and 6mm inside-Ø)

GDZ-21 = T-piece for 6/4 tubes

GDZ-25 = Luer-Lock male to 6/4 tube

GDZ-26 = Luer-Lock female to 6/4 tube

GOG-N = needle, Ø 0.9 mm - suitable to Luer-Lock male (5 pieces) (without picture)

for additional accessories refer to page 23



Stainless steel pressure sensors: for use with GMH311x, GMH315x and GDUSB1000

Application: • air, aggressive gases
• aggressive media, water, etc.

Type	Measuring range	Overload	Resolution	Design type	price
GMSD 350 MRE	0,0 ... 350,0 mbar rel.	max. 1,4 bar rel.	0,1 mbar	design A	
GMSD 1 BAE	0 ... 1000 mbar abs.	max. 4 bar abs.	1 mbar	design A	
GMSD 1 BRE	0 ... 1000 mbar rel.	max. 4 bar rel.	1 mbar	design A	
GMSD 3,5 BAE	0 ... 3500 mbar abs.	max. 14 bar abs.	1 mbar	design A	
GMSD 3,5 BRE	0 ... 3500 mbar rel.	max. 14 bar rel.	1 mbar	design A	
GMSD 7 BAE	0 ... 7000 mbar abs.	max. 28 bar abs.	1 mbar	design A	
GMSD 7 BRE	0 ... 7000 mbar rel.	max. 28 bar rel.	1 mbar	design A	
GMSD 10 BRE	0,00 ... 10,00 bar rel.	max. 40 bar rel.	10 mbar	design A	
GMSD 35 BAE	0,00 ... 35,00 bar abs.	max. 140 bar abs.	10 mbar	design B	
GMSD 35 BRE	0,00 ... 35,00 bar rel.	max. 140 bar rel.	10 mbar	design B	
GMSD 70 BAE	0,0 ... 70,0 bar abs.	max. 280 bar abs.	0,1 bar	design B	
GMSD 160 BAE	0,0 ... 160,0 bar abs.	max. 600 bar abs.	0,1 bar	design B	
GMSD 250 BAE	0,0 ... 250,0 bar abs.	max. 600 bar abs.	0,1 bar	design B	
GMSD 400 BAE	0,0 ... 400,0 bar abs.	max. 600 bar abs.	0,1 bar	design B	

General specification:

Sensor: stainless steel pressure sensor (parts coming into contact with media). Suitable for aggressive media, water, etc.

Accuracy: (typ. values) ± 0,2 %FS (hysteresis and linearity)
± 0,4 %FS (temperature influence from 0-50°C)

Electronics: PC board with amplifier and data memory for sensor data (meas. range, calibration, etc.) integrated in sensor housing.

Device connection: 1m PVC connection cable, screened with integral 6-pin Mini-DIN-plug, lockable

Working temperature: 0 ... +70 °C

Relative humidity: 0 ... +95 %RH (non-condensing)

Storage temperature: -40 ... +80 °C

Pressure connection: connection thread G1/4" *, ended spanner size: 27 mm (other threads or adapter on request).

Housing: made of stainless steel, outer Ø approx. 26 mm, length does not incl. anti-buckling glanding approx. 103 mm (design A) or approx. 110 mm (design B).

Weight: approx. 195 g (design A),
approx. 230 g (design B)

* = we reserve to change the design (e.g. 1/2" instead 1/4")

Options, upcharges:

Special pressure ranges

Probes for Ex-protection
(EEx ib IIC T4 - ZELM 03 ATEX 0136 X)

Higher probe accuracy

by multi point calibration (additional individual linearisation points are stored in sensor memory)

Certificate of calibration WPD5

(f. ISO9000 ff.) incl. several calibration points stored in probe calibration memory permanently,
certificate of calibration: 5 point increase, 5 point decrease.

Certificate of calibration WPD10

(f. ISO9000 ff.) incl. several calibration points stored in probe calibration memory permanently,
certificate of calibration: 10 point increase, 10 point decrease.



TUBE ADAPTER, COUPLINGS, etc.

for GMH31xx, GMSD, GDH and pressure measuring transducers.

GDZ-05 = Screw-type glanding for 6/4 tube with outside thread G1/8"

GDZ-06 = Increaser glanding for 6/4 tube with inside thread G1/8"

GDZ-09 = Coupling adapter (NW5) made of brass with inside thread G1/4" (suitable for GDZ-12)

GDZ-10 = Coupling adapter (NW5) made of brass for tube with 6mm inside-Ø (suitable for GDZ-12)

GDZ-11 = Coupling adapter (NW5) made of brass with outside thread G1/4" (suitable for GDZ-12)

GDZ-12 = Coupler socket (NW5) made of brass (single-and use) with inside thread G1/4"

GDZ-13 = Increaser/reducer made of brass with G1/2" outside thread and G1/8" inside thread

GDZ-14 = Screw-in nozzle for 6/4 tube with outside thread G1/8"

GDZ-15 = Screw-in nozzle for tube with 6 mm inside-Ø with outside thread G1/4"

GDZ-16 = Screw-in nozzle for 6/4 tube with outside thread G1/4"

GDZ-17 = Screw-in connection for 6/4 tube with outside thread G1/4"

GDZ-20 = Screw-on connection made of brass for 6/4 tube with inside thread G1/4"

GDZ-22 = Coupling adapter (NW5) made of brass with tube connection 6/4 (suitable for GDZ-12)

GDZ-23 = Adapter G1/2" Innen auf G1/4" Außen, aus Messing

GDZ-27 = Manometer profile gasket (thickness 3mm, Cu) for thread G1/4"

GDZ-28 = Flat gasket (thickness 1.5mm, Cu) for thread G1/4"

for additional accessories refer to page 22