



Pressure sensors:

for use with GMH31xx, GDUSB (Type GMSD ...), GMH 51xx (Type: GMSD ... - K51)

- Application:
- air and non aggressive gases
 - sensor are not suitable for water / liquids

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

	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.)					
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

GMSD ...					
GMSD ... - K51					

Absolute pressure sensors: for measuring of absolute pressure

	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	10 mbar
Accuracy (typ.)			
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

GMSD ...			
GMSD ... - K51 *			

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 % r.F. (nicht betauend)
- Storage temperature:** -40 ... +85 °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.
- Weight:** approx. 75 g (...K51: approx. 82 g)

Device connection:

- GMSD ... :** 1m PVC connection cable, screened with integral 6-pin Mini-DIN-plug, lockable
- GMSD ... - K51:** 1m PVC connection cable, screened with 7-pin bayonet plug

Options, upcharges:

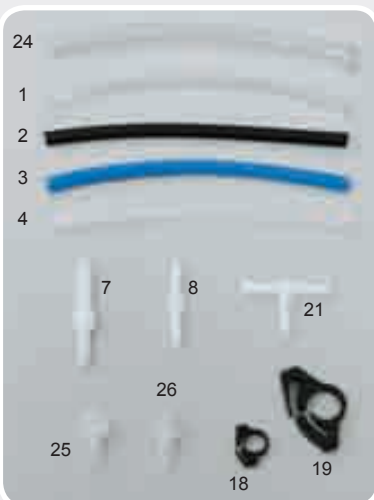
Probes for Ex-protection

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

TUBE, TUBE CLIPS, ADAPTER, COUPLINGS, etc.

for GMH31xx, GMSD, GDH and pressure measuring transducers.



- GDZ-01** = PVC-tube 6/4 (6 mm outside-Ø, 4 mm inside-Ø) (5 bar @ 23°C)
- GDZ-24** = PVC-tube 10/7 (10 mm outside-Ø, 7 mm inside-Ø) (5 bar @ 23°C)
- GDZ-02** = PE (polyethylene) 6/4 (6 mm outside-Ø, 4 mm inside-Ø) (10 bar @ 23°C)
- GDZ-03** = PUR (polyurethane) 6/4 (6 mm outside-Ø, 4 mm inside-Ø) (9 bar @ 23°C)
- GDZ-04** = PA (polyamide) 6/4 (6 mm outside-Ø, 4 mm inside-Ø) (25 bar @ 23°C)
- 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-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-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-hand use) with inside thread G¹/₄"
- GDZ-17** = Screw-in connection for 6/4 tube with outside thread G¹/₄"
- 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
- GDZ-29** = Filter-Membrane incl. Luer-Locks (GDZ-25 and GDZ-26) (without picture)
- GOG-N** = needle, Ø 0.9 mm - suitable to Luer-Lock male (5 pieces) (without picture)

for additional accessories refer to page 51