

## 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:

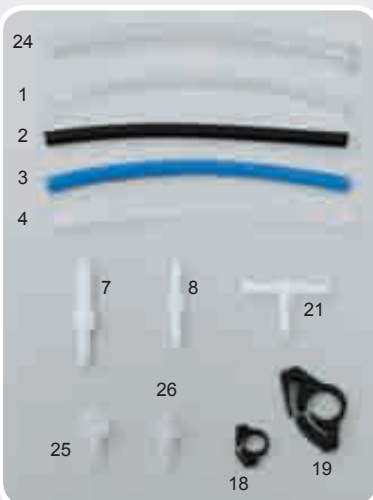
### Probes for Ex-protection

**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 G<sup>1</sup>/<sub>8</sub>"
- GDZ-06** = Increaser glanding for 6/4 tube with inside thread G<sup>1</sup>/<sub>8</sub>"
- 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 G<sup>1</sup>/<sub>4</sub>" (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 G<sup>1</sup>/<sub>4</sub>" (suitable for GDZ-12)
- GDZ-12** = Coupler socket (NW5) made of brass (single-hand use) with inside thread G<sup>1</sup>/<sub>4</sub>"
- GDZ-17** = Screw-in connection for 6/4 tube with outside thread G<sup>1</sup>/<sub>4</sub>"
- 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