



## 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           |
|-----------------------------------|------------------------|------------------------|------------------------|----------------------|----------------------|
| <b>Measuring range:</b>           | -1,999 ... +2,500 mbar | -19,99 ... +25,00 mbar | -199,9 ... +350,0 mbar | -1000 ... +2000 mbar | -1.00 ... +10.00 bar |
| <b>Overload:</b>                  | max. 200 mbar          | max. 300 mbar          | max. 1 bar             | max. 4 bar           | max. 10.34 bar       |
| <b>Resolution:</b>                | 0,001 mbar (0,1 Pa)    | 0,01 mbar (1 Pa)       | 0,1 mbar               | 1 mbar               | 10 mbar              |
| <b>Accuracy:</b> (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                  |

### Absolute pressure sensors:

 for measuring of absolute pressure

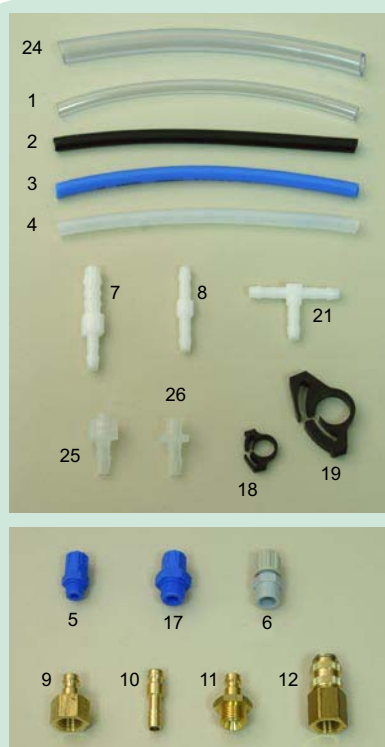
| Specification:                    | GMSD 1,3 BA          | GMSD 2 BA            | GMSD 7 BA              |
|-----------------------------------|----------------------|----------------------|------------------------|
| <b>Measuring range:</b>           | 0 ... 1300 mbar abs. | 0 ... 2000 mbar abs. | 0.00 ... 7,00 bar abs. |
| <b>Overload:</b>                  | max. 4 bar abs.      | max. 4 bar abs.      | max. 10,34 bar abs.    |
| <b>Resolution:</b>                | 1 mbar               | 1 mbar               | 1 mbar                 |
| <b>Accuracy:</b> (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                    |

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

for additional accessories refer to page 23