

PLASTIC PRESSURE SENSORS WITH TUBE CONNECTION



FOR AIR AND NON
AGGRESSIVE GASES

General:

for use with
GMH 31xx, GDU5B: Type GMSD ... -K31,
GMH 51xx: Type: GMSD ... -K51

Application:

air and non aggressive gases
Plastic pressure sensors are not suitable for water / liquids.

SENSORS FOR MEASURING PRESSURE DIFFERENCE GMSD...

for differential pressure measuring (both pressures are connected) as well as for relative pressure measuring (pressure / vacuum, one terminal is left open)

| | 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 / 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 probe accuracy: | | | ±0.1 % / ±0.2 % FS | ±0.1 % / ±0.2 % FS | ±0.1 % / ±0.2 % FS |
| GMSD ... - K31 | | | | | |
| Art. no. | 601039 | 601148 | 601154 | 601170 | 601183 |
| GMSD ... - K51 | | | | | |
| Art. no. | 601038 | 601149 | 601157 | 601171 | 601184 |

ABSOLUTE PRESSURE SENSORS GMSD...

for absolute pressure measuring (one terminal is without functionality)

| | 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 / 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 probe accuracy: | ±0.1 % FS (hysteresis, linearity); ±0.2 % FS (temperature influence 0 ... 50 °C) | | |
| GMSD ... - K31 | | | |
| Art. no. | 601192 | 601196 | 601200 |
| GMSD ... - K51 | | | |
| Art. no. | 601193 | 601197 | 601201 |

Specifications:

| | |
|-----------------------------|--|
| Sensor: | piezoresistive pressure sensor |
| Pressure connection: | 2 connection pins for tubes 6 x 1 mm (6 mm inside-Ø and 4 mm outside-Ø) |
| Electronics: | PC board with amplifier and data memory for sensor data (measuring range / calibration etc.) integrated in sensor housing |
| Working temperature: | 0 ... +50 °C |
| Relative humidity: | 0 ... +95 % RH (non-condensing) |
| Storage temperature: | -25 ... +70 °C |
| Housing: | ABS plastic with suspension eye, dimensions do not incl. connection pin: 68 x 32.5 x 15 mm (H x W x D), dimensions with connection pin: 68 x 32.5 x 27.5 mm. |
| Weight: | approx. 75 g (...K51: approx. 82 g) |
| Device connection | |
| GMSD ... - K31: | 1.2 m PVC connection cable, screened with integral 6-pin |
| GMSD ... - Ex: | Mini-DIN-plug, lockable |
| GMSD ... - K51: | 1 m PVC connection cable, screened with 7-pin bayonet plug |
| Scope of supply: | Device, calibration protocol, manual |

Options:**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!)

ISO-WPD5

Art. no. 602514
ISO certificates: 5 points ascending, 5 points descending