

PLASTIC PRESSURE SENSORS WITH TUBE CONNECTION



FOR AIR AND NON
AGGRESSIVE GASES

General:

for use with
GMH 31xx, GDUSB: 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

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

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. conn. 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 Mini-DIN-plug, lockable
GMSD ... - ex:	
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

Certificate of calibration: 5 points ascending, 5 points descending