

PRESSURE SENSORS WITH PLASTIC TUBE CONNECTIONS FOR Ø 6MM TUBES



FOR AIR AND
NON-AGGRESSIVE GASES

GENERAL:

Use with **GMH 31xx**, GDU5B: Type GMSD ...- K31, **GMH 51xx**: Type: GMSD ...- K51

APPLICATION:

Air or non-aggressive gases *Plastic pressure sensors are not suitable for water / liquids.*

DIFFERENTIAL PRESSURE SENSORS GMSD ...

suitable both for real differential pressure measurement (both connections are connected) as well as for relative pressure measurement (over / under pressure measurement, one connection remains open to the ambient air)

	GMSD 2.5 MR ...	GMSD 25 MR ...	GMSD 70 MR ...	GMSD 350 MR ...	GMSD 2 BR ...	GMSD 10 BR ...
Measuring range:	-1.999 .. + 2.500 mbar	-19.99 .. + 25.00 mbar	-19.99.. +70.00 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. 1 bar	max. 4 bar	max. 10.34 bar
Resolution:	0.001 mbar (0.1 Pa)	0.01 mbar (1 Pa)	0.01 mbar	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	± 0.2 % FS
Influence of temperature (from 0..50 °C):	± 1.0 % FS	± 0.5 % FS	± 0.4 % FS	± 0.4 % FS	± 0.4 % FS	± 0.4 % FS
OPTION						
Higher sensor accuracy:	-	-	-	± 0.1 % / ± 0.2 % FS	± 0.1 % / ± 0.2 % FS	± 0.1 % / ± 0.2 % FS
GMSD ...- K31						
Item No.	601039	601148	479293	601154	601170	601183
GMSD ...- K51						
Item No.	601038	601149	479294	601157	601171	601184

ABSOLUTE PRESSURE SENSORS GMSD ...

for absolute pressure measurement (one connection has no function)

	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
Influence of temperature (from 0..50 °C):	± 0.4 % FS	± 0.4 % FS	± 0.4 % FS
OPTION			
Higher sensor accuracy:	± 0.1 % FS (hyst., Linearity); ± 0.2 % FS (temperature influence 0..50 °C)		
GMSD ...- K31			
Item No.	601192	601196	601200
GMSD ...- K51			
Item No.	601193	601197	601201

TECHNICAL SPECIFICATIONS:

Sensor:	piezoresistive pressure sensor
Pressure connection:	2 nylon connection spigots for tubes 6 x 1 mm (6 mm outer Ø and 4 mm inner Ø)
Electronics:	Circuit board with amplifier and data memory for sensor data (measuring range, calibration, etc.) is integrated in the sensor housing.
Working temperature:	0 .. + 50 °C
Relative humidity:	0.95 % RH (not condensing)
Storage temperature:	-25 .. + 70 °C
Housing:	ABS with hanging loop, dimensions without connection pole: 68 x 32.5 x 15 mm (L x W x D), with connection pole: 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, shielded with molded 6-pole mini DIN connector and lock
GMSD ...- K51:	1 m PVC connection cable, shielded with 7-pole bayonet connector
Scope of delivery:	Device, test report, operating instructions

OPTIONS:

Ex version



Higher sensor accuracy

through multi-point calibration
Additional linearization points are saved in the sensor EEPROM,
Not possible with GMSD 2.5MR and GMSD 25 MR!

ACCESSORIES:

ISO-WPD5

Item No. 602514

ISO calibration certificate: Factory calibration pressure, 5 points rising and falling, max 600 bar