

Stainless steel pressure sensors



Follow-on type für GMSD-stainless-steel-sensors

MSD ...

Stainless steel pressure sensors without cable
Connection cable MSD-K31 or MSD-K51 has to be ordered separately (Accessories)

General:
for use with GMH31xx, GMH 51xx and GDUSB 1000 (p. 69)

Application:
air, aggressive gases, aggressive liquids / water, etc.

Abs. pressure	Measuring range	Overload	Resolution
MSD 1 BAE	0 ... 1000 mbar abs.	max. 5 bar abs.	1 mbar
MSD 2,5 BAE	0 ... 2500 mbar abs.	max. 10 bar abs.	1 mbar
MSD 4 BAE	0 ... 4000 mbar abs.	max. 17 bar abs.	1 mbar
MSD 6 BAE	0 ... 6000 mbar abs.	max. 35 bar abs.	1 mbar
MSD 10 BAE	0 ... 10.00 bar abs.	max. 35 bar abs.	10 mbar
MSD 16 BAE	0 ... 16.00 bar abs.	max. 80 bar abs.	10 mbar
MSD 25 BAE	0 ... 25.00 bar abs.	max. 50 bar abs.	10 mbar

Rel. pressure	Measuring range	Overload	Resolution
MSD 100 MRE	0.0 ... 100.0 mbar rel.	max. 1 bar rel.	0.1 mbar
MSD 250 MRE	0.0 ... 250.0 mbar rel.	max. 2 bar rel.	0.1 mbar
MSD 400 MRE	0.0 ... 400.0 mbar rel.	max. 2 bar rel.	0.1 mbar
MSD -1/1.5 BRE	-1000 ... +1500 mbar rel.	max. 10 bar rel.	1 mbar
MSD -1/3 BRE	-1000 ... +3000 mbar rel.	max. 17 bar rel.	1 mbar
MSD 1 BRE	0 ... 1000 mbar rel.	max. 5 bar rel.	1 mbar
MSD 2,5 BRE	0 ... 2500 mbar rel.	max. 10 bar rel.	1 mbar
MSD 4 BRE	0 ... 4000 mbar rel.	max. 17 bar rel.	1 mbar
MSD 6 BRE	0 ... 6000 mbar rel.	max. 35 bar rel.	1 mbar
MSD 10 BRE	0.00 ... 10.00 bar rel.	max. 35 bar rel.	10 mbar
MSD 25 BRE	0.00 ... 25.00 bar rel.	max. 50 bar rel.	10 mbar
MSD 40 BRE	0.00 ... 40.00 bar rel.	max. 80 bar rel.	10 mbar
MSD 60 BRE	0.00 ... 60.00 bar rel.	max. 120 bar rel.	10 mbar
MSD 100 BRE	0.0 ... 100.0 bar rel.	max. 200 bar rel.	0.1 bar
MSD 160 BRE	0.0 ... 160.0 bar rel.	max. 320 bar rel.	0.1 bar
MSD 250 BRE	0.0 ... 250.0 bar rel.	max. 500 bar rel.	0.1 bar
MSD 400 BRE	0.0 ... 400.0 bar rel.	max. 800 bar rel.	0.1 bar
MSD 600 BRE	0.0 ... 600.0 bar rel.	max. 1200 bar rel.	0.1 bar
MSD 1000 BRE	0 ... 1000 bar rel.	max. 1500 bar rel.	1 bar

MSD 25 MRE**MSD -20/60 MRE**

not suited for aggressive media, water, etc.,
no Ex design and no option „higher accuracy“ available

Rel. pressure	Measuring range	Overload	Resolution
MSD 25 MRE	0.00 ... 25.00 mbar	max. 500 mbar	0.01 mbar
MSD -20/60 MRE	-20.00 ... 60.00 mbar	max. 500 mbar	0.01 mbar

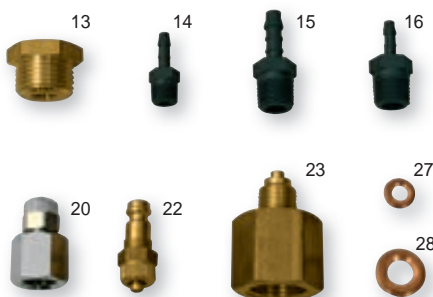
Specification:	
Sensor:	stainless steel pressure sensor (parts coming into contact with media). Suitable for aggressive media, water, etc.. (does not apply to MSD 25 MRE and MSD -20/60 MRE)
Accuracy: (typ. values)	± 0.2 % FS (hysteresis and linearity) ± 0.02 % FS / K (TC for zero or slope)
Electronics:	PC board with amplifier and data memory for sensor data (meas. range, etc.) integrated in sensor housing, sealed sensor electronic
Reaction time:	1 ms
Medium temperature:	-25 ... +100 °C (compensated range: 0 ... 80 °C); -25 ... +80 °C at MSD 25 MRE and MSD -20/60 MRE
Working conditions:	-20 ... +80 °C
Storage temperature:	-40 ... +80 °C
Pressure connection:	connection thread G1/2B (other on request).
Cable connection:	M16 built-in plug
Housing:	CrNi-steel or elgiloy (parts coming into contact with media) length: 88.5 mm, Ø 27 mm, approx. 220 g
Protection class:	IP 67 (sensor)

Options:
Higher probe accuracy by multi point calibration. Additional individual linearisation points are stored in sensor memory. (not available for MSD 25 MRE and MSD -20/60 MRE)
Certificate of calibration WPD5

Accessories and spare parts:
MSD-K31 Connection cable for use with GMH 31xx / GDUSB 1000 1 m PVC connection cable, screened with integral 6-pin Mini-DIN-plug and M16-socket (IP 54)
MSD-K51 Connection cable for use with GMH 51xx 1 m PVC connection cable, screened with 7-pin bayonet plug cable and plug connection water proof acc. to IP 67 and M16-socket
MSD-K31-xx Longer connection cable (as MSD-K31); Length 2 ... 10 m please specify
MSD-K51-xx Longer connection cable (as MSD-K51); Length 2 ... 10 m please specify

Ex-Protection:
MSD ... - ex Stainless steel pressure sensor (without cable) with Ex-protection
MSD-K31 - ex Connection cable with Ex-protection Connection to GMH 31xx, 1 m PVC connection cable, screened with integral 6-pin Mini-DIN-plug and M12-socket

Tube, tube clips, adapter, couplings, etc.



GDZ-13 Increaser/reducer made of brass with G1/2" outside thread and G1/8" inside thread
GDZ-14 Screw-in nozzle for 6/4 tube with outside thread G1/8"
GDZ-15 Screw-in nozzle for tube with 6 mm inside-Ø with outside thread G1/4"
GDZ-16 Screw-in nozzle for 6/4 tube with outside thread G1/4"
GDZ-20 Screw-on connection made of brass for 6/4 tube with inside thread G1/4"

GDZ-22 Coupling adapter (NW5) made of brass with tube connection 6/4 (suitable for GDZ-12)
GDZ-23 Adapter G1/2" inside thread to G1/4" outside thread, made of brass
GDZ-27 Manometer profile gasket (thickness 3 mm, Cu) for thread G1/4"
GDZ-28 Flat gasket (thickness 5 mm, Cu) for thread G1/2"
GDZ-30 Adapter G1/2" inside thread to tube 6/4 (w/o picture)
GWA 1214 Adapter G1/2" inside thread to G1/4" outside thread (without picture)

for additional accessories refer to page 62 or upon request