

STAINLESS STEEL PRESSURE SENSORS G $\frac{1}{2}$  INCH

FOR AIR, AGGRESSIVE GASES  
AND LIQUIDS

FOLLOW-ON TYPE FÜR GMSD-  
STAINLESS-STEEL-SENSORS

**MSD...**

exchangeable handheld instruments pressure sensors st. steel G $\frac{1}{2}$ B  
Connection cable MSD-K31 or MSD-K51 has to be ordered separately (accessories)

**General:**  
for use with GMH31xx, GMH 51xx and GDUSB 1000

**Application:**  
Air, aggressive gases, aggressive liquids / water, etc.

Abs. pressure	Measuring range	Overload	Resolution
<b>MSD 1 BAE</b> Art. no. 600583	0 ... 1000 mbar abs.	max. 5 bar abs.	1 mbar
<b>MSD 2.5 BAE</b> Art. no. 600585	0 ... 2500 mbar abs.	max. 10 bar abs.	1 mbar
<b>MSD 4 BAE</b> Art. no. 600587	0 ... 4000 mbar abs.	max. 17 bar abs.	1 mbar
<b>MSD 6 BAE</b> Art. no. 600592	0 ... 6000 mbar abs.	max. 35 bar abs.	1 mbar
<b>MSD 10 BAE</b> Art. no. 600594	0 ... 10,00 bar abs.	max. 35 bar abs.	10 mbar
<b>MSD 16 BAE</b> Art. no. 600596	0 ... 16.00 bar abs.	max. 80 bar abs.	10 mbar
<b>MSD 25 BAE</b> Art. no. 600598	0 ... 25.00 bar abs.	max. 50 bar abs.	10 mbar
Rel. pressure	Measuring range	Overload	Resolution
<b>MSD 100 MRE</b> Art. no. 600600	0.0 ... 100.0 mbar rel.	max. 1 bar rel.	0.1 mbar
<b>MSD 250 MRE</b> Art. no. 600604	0.0 ... 250.0 mbar rel.	max. 2 bar rel.	0.1 mbar
<b>MSD 400 MRE</b> Art. no. 600606	0.0 ... 400.0 mbar rel.	max. 2 bar rel.	0.1 mbar
<b>MSD -1/1.5 BRE</b> Art. no. 600608	-1000 ... +1500 mbar rel.	max. 10 bar rel.	1 mbar
<b>MSD -1/3 BRE</b> Art. no. 600610	-1000 ... +3000 mbar rel.	max. 17 bar rel.	1 mbar
<b>MSD 1 BRE</b> Art. no. 600612	0 ... 1000 mbar rel.	max. 5 bar rel.	1 mbar
<b>MSD 2,5 BRE</b> Art. no. 600614	0 ... 2500 mbar rel.	max. 10 bar rel.	1 mbar
<b>MSD 4 BRE</b> Art. no. 600616	0 ... 4000 mbar rel.	max. 17 bar rel.	1 mbar
<b>MSD 6 BRE</b> Art. no. 600618	0 ... 6000 mbar rel.	max. 35 bar rel.	1 mbar
<b>MSD 10 BRE</b> Art. no. 600620	0.00 ... 10.00 bar rel.	max. 35 bar rel.	10 mbar
<b>MSD 25 BRE</b> Art. no. 600622	0.00 ... 25.00 bar rel.	max. 50 bar rel.	10 mbar
<b>MSD 40 BRE</b> Art. no. 600624	0.00 ... 40.00 bar rel.	max. 80 bar rel.	10 mbar
<b>MSD 60 BRE</b> Art. no. 600627	0.00 ... 60.00 bar rel.	max. 120 bar rel.	10 mbar
<b>MSD 100 BRE</b> Art. no. 600629	0.0 ... 100.0 bar rel.	max. 200 bar rel.	0.1 bar
<b>MSD 160 BRE</b> Art. no. 600631	0.0 ... 160.0 bar rel.	max. 320 bar rel.	0.1 bar
<b>MSD 250 BRE</b> Art. no. 600639	0.0 ... 250.0 bar rel.	max. 500 bar rel.	0.1 bar
<b>MSD 400 BRE</b> Art. no. 600633	0.0 ... 400.0 bar rel.	max. 800 bar rel.	0.1 bar
<b>MSD 600 BRE</b> Art. no. 600635	0.0 ... 600.0 bar rel.	max. 1200 bar rel.	0.1 bar
<b>MSD 1000 BRE</b> Art. no. 600637	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
<b>MSD 25 MRE</b> Art. no. 606904	0.00 ... 25.00 mbar	max. 500 mbar	0.01 mbar
<b>MSD -20/60 MRE</b> Art. no. 606765	-20.00 ... +60.00 mbar	max. 500 mbar	0.01 mbar

**Specifications:**

<b>Sensor:</b>	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)
<b>Accuracy: (typ. values)</b>	±0.2 % FS (hysteresis and linearity) ±0.02 % FS / K (TC for zero or slope)
<b>Electronics:</b>	PC board with amplifier and data memory for sensor data (meas. range, etc.) integrated in sensor housing, sealed sensor electronic
<b>Reaction time:</b>	1 ms
<b>Medium temperature:</b>	-25 ... +100 °C (compensated range: 0 ... 80 °C); -25 ... +80 °C at MSD 25 MRE and MSD -20/60 MRE
<b>Working temperature:</b>	-20 ... +80 °C
<b>Storage temperature:</b>	-40 ... +80 °C
<b>Pressure connection:</b>	connection thread G1/2B (other on request)
<b>Cable connection:</b>	M16 built-in plug
<b>Housing:</b>	CrNi-steel or elgiloy (parts coming into contact with media) length: 88.5 mm, Ø 27 mm, approx. 220 g
<b>Protection rating:</b>	IP 67 (Sensor)
<b>Scope of supply:</b>	pressure sensor, calibration protocol, manual; <b>Note: Connection cable has to be ordered separately.</b>

**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)

**ISO-WPDS**

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

**Accessories:**

**MSD-K31**  
Art. no. 600657  
Connecting cable for MSD sensor to GMH 31xx and GDUSB 1000  
1.2 m PVC connection cable, screened with integral 6-pin Mini-DIN-plug and M16-socket (IP 54)

**MSD-K51**

Art. no. 603809  
Connecting cable for MSD sensor to 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**

Art. no. 600871  
Connecting cable for MSD-Ex sensor to GMH 31xx-ex  
Connection to GMH 31xx, 1 m connection cable, screened with integral 6-pin Mini-DIN-plug and M12-socket