

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



FOR AIR, AGGRESSIVE GASES
AND LIQUIDS

SUCCESSOR FOR
GMSD STAINLESS STEEL SENSORS

MSD ...

interchangeable handheld pressure sensors, stainless steel G $\frac{1}{2}$ B
Connection cable MSD-K31 or MSD-K51 must be ordered separately (accessories)

GENERAL:

for use with GMH31xx, GMH 51xx and GDUSB 1000, G1/2 inch gauge connection
(see accessories for suitable gasket GDZ-28)

APPLICATION:

Air, aggressive gases, aggressive liquids/ water, etc.

ABSOLUTE PRESSURE	MEASURING RANGE	OVERLOAD LIMIT	RESOLUTION
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MSD 1 BAE <i>Item No. 600583</i>	0..1000 mbar abs.	max. 5 bar abs.	1 mbar
MSD 2.5 BAE <i>Item No. 600585</i>	0..2500 mbar abs.	max. 10 bar abs.	1 mbar
MSD 4 BAE <i>Item No. 600587</i>	0..4000 mbar abs.	max. 17 bar abs.	1 mbar
MSD 6 BAE <i>Item No. 600592</i>	0..6000 mbar abs.	max. 35 bar abs.	1 mbar
MSD 10 BAE <i>Item No. 600594</i>	0..10.00 bar abs.	max. 35 bar abs.	10 mbar
MSD 16 BAE <i>Item No. 600596</i>	0..16.00 bar abs.	max. 80 bar abs.	10 mbar
MSD 25 BAE <i>Item No. 600598</i>	0..25.00 bar abs.	max. 50 bar abs.	10 mbar

RELATIVE PRESSURE	MEASURING RANGE	OVERLOAD LIMIT	RESOLUTION
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MSD 100 MRE <i>Item No. 600600</i>	0.0..100.0 mbar rel.	max. 1 bar rel.	0.1 mbar
MSD 250 MRE <i>Item No. 600604</i>	0.0..250.0 mbar rel.	max. 2 bar rel.	0.1 mbar
MSD 400 MRE <i>Item No. 600606</i>	0.0..400.0 mbar rel.	max. 2 bar rel.	0.1 mbar
MSD -1 / 1.5 BRE <i>Item No. 600608</i>	-1000 .. + 1500 mbar rel.	max. 10 bar rel.	1 mbar
MSD -1/3 BRE <i>Item No. 600610</i>	-1000 .. + 3000 mbar rel.	max. 17 bar rel.	1 mbar
MSD 1 BRE <i>Item No. 600612</i>	0..1000 mbar rel.	max. 5 bar rel.	1 mbar
MSD 2.5 BRE <i>Item No. 600614</i>	0..2500 mbar rel.	max. 10 bar rel.	1 mbar
MSD 4 BRE <i>Item No. 600616</i>	0..4000 mbar rel.	max. 17 bar rel.	1 mbar
MSD 6 BRE <i>Item No. 600618</i>	0..6000 mbar rel.	max. 35 bar rel.	1 mbar
MSD 10 BRE <i>Item No. 600620</i>	0.00..10.00 bar rel.	max. 35 bar rel.	10 mbar
MSD 25 BRE <i>Item No. 600622</i>	0.00..25.00 bar rel.	max. 50 bar rel.	10 mbar
MSD 40 BRE <i>Item No. 600624</i>	0.00..40.00 bar rel.	max. 80 bar rel.	10 mbar
MSD 60 BRE <i>Item No. 600627</i>	0.00..60.00 bar rel.	max. 120 bar rel.	10 mbar
MSD 100 BRE <i>Item No. 600629</i>	0.0..100.0 bar rel.	max. 200 bar rel.	0.1 bar
MSD 160 BRE <i>Item No. 600631</i>	0.0..160.0 bar rel.	max. 320 bar rel.	0.1 bar
MSD 250 BRE <i>Item No. 600639</i>	0.0..250.0 bar rel.	max. 500 bar rel.	0.1 bar
MSD 400 BRE <i>Item No. 600633</i>	0.0..400.0 bar rel.	max. 800 bar rel.	0.1 bar
MSD 600 BRE <i>Item No. 600635</i>	0.0..600.0 bar rel.	max. 1200 bar rel.	0.1 bar
MSD 1000 BRE <i>Item No. 600637</i>	0..1000 bar rel.	max. 1500 bar rel.	1 bar

MSD 25 MRE

MSD -20/60 MRE

not suitable for aggressive media, water, etc.,
not available as Ex-version and not available with option "higher sensor accuracy"

RELATIVE PRESSURE	MEASURING RANGE	OVERLOAD LIMIT	RESOLUTION
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MSD 25 MRE <i>Item No. 606904</i>	0.00..25.00 mbar	max. 500 mbar	0.01 mbar
MSD -20/60 MRE <i>Item No. 606765</i>	-20.00 .. + 60.00 mbar	max. 500 mbar	0.01 mbar

TECHNICAL SPECIFICATIONS:

Sensor:	Pressure sensor made of stainless steel (parts in 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 point or slope)
Electronics:	Integrated amplifier and memory for sensor data (measuring range ...). Electronics sealed.
Reaction time:	1 ms
Medium temperature:	-25 .. + 100 °C (compensated range: 0 .. + 80 °C); -25 .. + 80 °C for MSD 25 MRE and MSD -20/60 MRE
Working temperature:	-20 .. + 80 °C
Storage temperature:	-40 .. + 80 °C
Pressure connection:	Connection thread G1 / 2B (others on request)
Cable connection:	M16 built-in connector
Housing:	made of stainless steel or Elgiloy (wetted parts) Length: 88.5 mm, Ø 27 mm, approx. 220 g
Protection class:	IP 67 (sensor)
Scope of delivery:	Pressure sensor, test report, operating instructions; <i>Note: connection cable must be ordered separately.</i>

OPTIONS:

Higher sensor accuracy

through multi-point calibration. Additional linearization points are saved in the sensor (not available for MSD 25 MRE and MSD -20/60 MRE)
Hysteresis and linearity: +/- 0.1 % FSE)

EQUIPMENT:

ISO-WPDS

Item No. 602514
ISO calibration certificate: Factory calibration pressure, 5 points rising and falling, max 600 bar

MSD-K31

Item No. 600657
Connection cable for MSD sensor on GMH 31xx and GDUSB 1000, 1.2 m PVC connection cable, shielded with molded 6-pole mini-DIN plug and M16 socket (IP 54)

MSD-K51

Item No. 603809
Connection cable for MSD sensor to GMH 51xx, 1 m PVC connection cable, shielded with 7-pole bayonet plug, cable and plug connector waterproof to IP 67 and M16 socket

MSD-K31-xx

Longer connection cable (like MSD-K31); please specify length 2..10 m

MSD-K51-xx

Longer connection cable (like MSD-K51); please specify length 2..10 m

GDZ-28

Item No. 601597
Pressure gauge profile seal for thread G $\frac{1}{2}$



EX VERSION:

MSD ..EX

Stainless steel pressure sensor (without connection cable) with explosion protection

MSD-K31-EX

Item No. 600871
Connection cable for MSD-EX sensor to GMH 31xx-EX
Connection to GMH 31xx, 1 m connection cable, shielded with molded 6-pole mini DIN plug and M16 socket