HANDHELD INSTRUMENT

DISPLAY / CONTROLLER

LOGGER / BUS SYSTEMS

TRANSMITTER

TEMPERATURE PROBE

ALARM / PROTECTION, LEVEL

ACCESSORIES

Accessories and spare parts:

GMSD ... - K51
pressure sensors
(p.r.t. page 88)
Application field:
non-aggressive gases
for over / under pressure and difference pressure meas. or absolute pressure meas.

MSD ...
pressure sensors / stainless steel (p.r.t. page 89)
Application field: air, aggressive gases for over / under pressure and relative pressure meas. or absolute pressure meas.
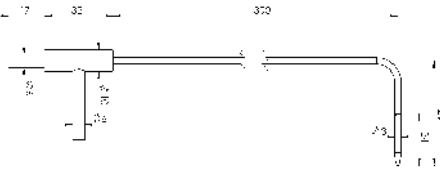
MSD-K51
Art. no. 603809
1 m connection cable for MSD sensors

Prandtl-Staurohr
Art. no. 604150
(made of stainless steel)
for air velocity / flow volume measurement
Ø = 3 mm, NL = 300 mm, max. 600 °C
GMSD 2,5 MR-K51 or GMSD 25 MR-K51 are required

GDZ-01
Art. no. 601541
PVC tube 6/4 (6 mm outer Ø, 4 mm inner Ø)
(5 bar at 23 °C)

GDZ-30
Art. no. 601601
Adapter G1/2" inner to tube 6/4

EBS 20M
Art. no. 601158
Software for long-term monitoring (p.r.t. page 108)

GSOFT 3050
Art. no. 601336
Software for operation of logger devices (p.r.t. page 109)

USB 5100
Art. no. 601095
Electrically isolated interface converter, supplied via USB

GNG 5 / 5000
Art. no. 602287
Plug-in power supply 5 V DC, suitable for GMH 5000 series (p.r.t. page 113)

GKK 3500
Art. no. 601052
Device case (394 x 294 x 106 mm) with eggcrate foam and cut-outs for 1 device

HAND-HELD PRESSURE MEASURING DEVICE

HIGHLIGHTS:

○ One device for any measuring range
(2.500 mbar ... 1000 bar)

○ Calibrated and fully interchangeable pressure probes

**Suitable pressure probes
p.r.t.page 88 / 89**

GMH 3111
Art. no. 600374
Hand-held pressure measuring device with 1 sensor connection, without sensor

GMH 3111-EX
Art. no. 600380
Hand-held pressure measuring device with 1 sensor connection, without sensor, Ex

Specifications:

Max. display range:	-19999 ... +19999 digit
Measuring range:	corresponding to used probe
Overload:	corresponding to used probe
Resolution:	corresponding to used probe
Accuracy: (device)	±0.1 % FS ±1 digit (at nominal temperature = 25 °C)
Pressure units: *	mbar, bar, Pa, kPa, MPa, mmHg, PSI, mH$_2$O, can be selected
Probe connection:	1 sensor socket 6-pin lockable Mini-DIN-socket(s) for GMSD/MSD-sensors. Automatic probe detection and setting of measuring range upon plugging in of probe.
Display:	2 x 4½ digit LCD
Output:	Interface
Serial interface:	direct connection to RS232 or USB interface of a PC via electrically isolated interface converter GRS 3100, GRS 3105 or USB 3100 N.
Power supply:	9 V battery, d.c. connector for external 10.5 ... 12 V direct voltage supply. (suitable power supply: GNG10/3000)
Sensor adjustment:	digital offset and scale input
Measuring cycle:	4 measurements / s
Battery life:	approx. 120 h
Operating conditions:	-25 ... +50 °C, 0 ... 95 % RH, **GMH 3111-EX:** -10 ... +50 °C, 0 ... 95 % RH
Housing:	impact-resistant ABS plastic housing, foil keypad, clear viewing pane **GMH 3111 only:** integrated pop-up clip for table top or suspended use.
Dimensions:	142 x 71 x 26 mm (H x W x D)
Weight:	approx. 150 g, **GMH3111-EX:** approx. 190 g (incl. leather case)
Scope of supply:	Device, battery, calibration protocol, manual

* Note to the pressure unit selection: (information for all GMH 31xx)
The choice of a specific pressure unit is possible, if its whole measuring range is displayable within the display of the device and the sensor is supporting these resolution.

Note to Ex-design types:

Technical changes compared to standard instrument (valid for all GMH31xx-EX)

Ex qualification: ⟨Ex⟩ II 2 G Ex ib IIC T4 Gb

Ref. document: EPS 09 ATEX 1 227 X

Standards:
The device meets the standards for electric resources in explosion endangered areas according to EN 60079-0 : 2012, EN 60079-11 : 2012

Sensor:
(GMH 3111-EX, GMH 3151-EX, GMH 3156-EX)
All GMSD sensors with option 'Ex type' can be used.

Interface:
suitable interface adapter are USB 3100 N, GRS 3100 and GRS 3105
Please note: The operation of the interface is not allowed within the Ex area!

Working temperature: -10 ... +50 °C

Power supply: 9 V battery, d.c. connector
Note: the use of d.c. connector is not allowed within the Ex area! Just d.c. connectors of type GNG10/3000 can be used.

Alarm function:
(GMH 3151-EX, GMH 3156-EX, GMH 3181-EX)
The device is without a horn, in the alarm settings are only the parameter „no.so" and „off" adjustable.

Scope of supply:
device with associated leather case.

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