ACCESSORIES

Accessories and spare parts:

GMSD ... - K51
pressure sensors
(p.r.t. page 62)
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 63)
Application field: air,
aggressive gases
for over / under pressure and relative pressure meas. or absolute pressure meas.

MSD-K51
Product-ID: 603809
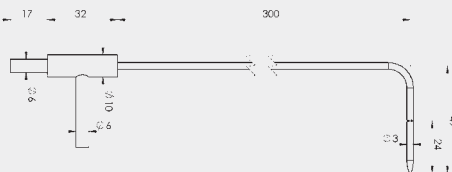1 m connection cable for MSD sensors

Prandtl-Staurohr
Product-ID: 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
Product-ID: 601541
PVC tube 6/4 (6 mm outer Ø, 4 mm inner Ø)
(5 bar at 23 °C)

GDZ-30
Product-ID: 601601
Adapter G1/2" inner to tube 6/4

EBS 20M
Product-ID: 601158
software for long-term monitoring (p.r.t. page 77)

GSOFT 3050
Product-ID: 601336
Software for operation of logger devices (p.r.t. page 77)

USB 5100
Product-ID: 601095
Electrically isolated interface converter, supplied via USB

GNG 5 / 5000
Product-ID: 602287
Plug-in power supply 5 V DC, suitable for GMH 5000 series (see p. 75)

GKK 3500
Product-ID: 601052
Device case (394 x 294 x 106 mm) with eggcrate foam and cut-outs for 1 device (p.r.t. page 72)

HAND-HELD PRESSURE MEASURING DEVICE

ISO

FUNCTIONS:

AUTO OFF / BAT / HOLD / MIN MAX / O/S-CORR / TARA

HIGHLIGHTS:
• one device for any measuring range
  (2.500 mbar ... 1000 bar)

CALIBRATED AND FULLY INTERCHANGEABLE PRESSURE PROBES

GMH 3111
Art.-Nr 600374
device with 1 sensor connection, without sensor

GMH 3111 - ex (Ex)
Art.-Nr 600380
device with 1 sensor connection, without sensor, ex

Suitable pressure probes p.r.t.p. 63/64

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, mH₂O, 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
Power consumption:	approx. 1.6 mA
Working condition:	-25 ... 50 °C, 0 ... 95 % RH, **GMH 3111-ex:** -10 ... +50 °C, 0 ... 95 % RH
Housing:	impact-resistant ABS plastic housing, Front side IP65 **GMH 3111 only:** integrated pop-up clip for table top or suspended use.
Dimensions:	142 x 71 x 26 mm
Weight:	approx. 150 g, **GMH3111-ex:** approx. 190 g (incl. leather case)
Scope of supply:	Device, battery, 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

Probe:
(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
Please 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.