

pressure measuring instruments with analog output 0 - 1 V



DIGITAL MANOMETER for over/under pressure or pressure difference

GDH 01 AN (0...1999 Pa)

GDH 07 AN (0...199.9 mbar)

Device ready for use incl. sensor (plug-in), battery and mains operation possible, analog output: 0-1V

DIGITAL MANOMETER for over/under pressure or pressure difference

GDH 13 AN (0...1999 mbar)

GDH 14 AN (0...10.00 bar)

Device ready for use incl. sensor (plug-in), battery and mains operation possible, analog output: 0-1V

DIGITAL-VAKUUM-/BAROMETER for absolute pressure measurements

GDH 12 AN

Device ready for use incl. sensor (plug-in), battery and mains operation possible, analog output: 0-1V

Specification:

Measuring range:

GDH 01 AN

0 ... 1999 Pa relative
(0 ... 19.99 mbar)
max. 10000 Pa rel.

GDH 07 AN

0,0 ... 199.9 mbar rel.
max. 1 bar rel.

GDH 12 AN

0 ... 1300 mbar abs.
max. 2 bar abs.

GDH 13 AN

0 ... 1999 mbar (hPa) rel.
max. 4 bar rel.

GDH 14 AN

0,00 ... 10,00 bar rel.
max. 10,34 bar rel.

Overload:

(no destruction or new calibration of sensor)

Resolution:

1 Pa (0,01 mbar)

0,1 mbar

1 mbar

1 mbar

0,01 bar

Accuracy (device):
(at nominal temperature = 25°C)

1 Pa ±1 digit

0,1 mbar ±1 digit

1 mbar ±1 digit

1 mbar ±1 digit

0,01 bar ±1 digit

Temperature drift (device):

±0,01 %/K

Sensor: (relative pressure)

piezoresistive relative pressure sensor, externally mounted in plastic case, 2 connection pins for plastic tube 6 x 1 mm (4 mm inner Ø), approx. 1 m of 4-wire PVC connecting cable with Mini-DIN 4-pin plug.

Sensor: (absolute pressure)

piezoresistive absolute pressure sensor, externally mounted in plastic case, 1 connection pins for plastic tube 6 x 1 mm (4 mm inner Ø), approx. 1 m of 4-wire PVC connecting cable with Mini-DIN 4-pin plug.

Application area:

Sensor accuracy: (typical values)

hysteresis and linearity
temperature drift (0 - 50°C)
for option double accuracy

± 0,5 % f.s.

± 0,2 % f.s.

± 0,2 % f.s.

± 0,2 % f.s.

± 0,2 % f.s.

± 0,4 % f.s.

± 0,4 % f.s.

± 0,4 % f.s.

± 0,4 % f.s.

± 0,4 % f.s.

± 0,1 % / ± 0,2 % f.s.

± 0,1 % / ± 0,2 % f.s.

± 0,1 % / ± 0,2 % f.s.

± 0,1 % / ± 0,2 % f.s.

Working temperature:

0 to 50 °C (device)

-40 to +85°C (sensor), Temperature of sensor will be compensated from 0 to 70° C

Display:

Power supply:

3½ digit LCD display, approx. 13 mm high

9V battery type JEC 6 F 22 (included).

Additional power supply socket for 2.5 mm Ø jack connector (automatic battery disconnection)

Power consumption:

approx. 5 mA

Low battery warning:

„BAT“

Analog output:

0...1 V = 0...1999 Pa 0...1 V = 0...199.9 mbar 0...1 V = 0...1300 mbar 0...1 V = 0...1999 mbar 0...1 V = 0...10.00 bar

socket for 3,5 mm Ø jack connector (included)

Dimensions:

approx. 150 x 86 x 30 mm (H x W x D), impact resistant ABS plastic housing with integrated pop-up clip for table-top or suspended use, clips for lateral mounting of probe.

Dimensions sensor case:

approx. 26 x 67.5 x 15 mm (H x W x D) with suspension eye.

Weight:

approx. 320 g (incl. battery and sensor)

Options:

sensor with higher accuracy

Accessories:

GB 9 V spare battery

GNG 10 power supply

GAK 9 V accu 9V

GLG 1300 accu charger for charging of two 9V accus at the same time

GKK 252 small case (235 x 185 x 48 mm) with foam lining

GKK 1100 case

(340 x 275 x 83 mm) with foam lining for universal use

GKK 3000 case

(275 x 229 x 83 mm) with punched lining suitable for all devices of the GMH3xxx-series

GKK 3100 case

(275 x 229 x 83 mm) with foam lining for universal use

Accessories: (for pressure connection)

GDZ-01 PVC-tube (5bar)

6/4 (6mm outside-Ø, 4mm inside-Ø)

GDZ-08 Double adapter for 6/4 to 6/4 tube

GDZ-16 Reducer for 6/4 tube with external thread G $\frac{1}{4}$ "

GDZ-18 Tube clamp for 6/4 tube

GDZ-21 T-piece for tubes 6/4

additional tubes, clamps, accessories, etc. p.r.t. page 42, 43

additional accessories p.r.t. page 56/58