GHM GROUP – Greisinger | GHM Messtechnik GmbH Hans-Sachs-Straße 26 | 93128 Regenstauf | GERMANY Phone +49 9402 9383-0 | Fax +49 9402 9383-33 www.greisinger.de | info@greisinger.de

Product Information

GMH 3161 / GMH 3181 Manometer / Barometer / Vacuummeter

With high precision sensors integrated





EX-version

- in protection bag
- Sturdy metal connector for hose connection
- field and laboratory use: with mounting bracket/belt clip
- high resolution and accuracy
- serial interface
- calibratable / traceable
- reference instrument for many calibration tasks
- Optionally as EX device
 for use in hazardous areas
- Made in Germany

For GMH 3181 additionally:

- Logger
- Fast measurement with peak detection: 1000/s
- Averaging

Characterisitcs

Powerful pressure gauges with integrated sensors in premium quality. The temperature compensated devices are available in numerous versions - from extremely fine resolution manometers with 0.1 Pa resolution up to 2000 hPa - the right one for every purpose.

The absolute pressure gauges GMH 31x1-12 measure down to 0 hPa abs. and are therefore excellent vacuum gauges.

Optional ISO or DAkkS calibration certificates make the purchase of a high-quality utility or factory standard based on the GMH 3100 series both amazingly affordable and easy!

GMH 3161/-81 Series – Reference instruments for professionals through sophisticated functionality.

The GMH 3161 combine the basic functions for professional use.

The GMH 3181 additionally offer a logger function paired with extremely fast measurement and averaging function -ideal companions for the investigation of fluctuating pressures: dynamic pressures, draft and clean room pressure are reliably measured.

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Handheld

Thanks to the data logger's low power function, leak tests can also be carried out on site over a longer period of time - without an additional power supply. Perfect for heating, ventilation, air conditioning and in plant engineering.

The GMH3181-12 vacuum gauges enable analysis and function monitoring of complex systems in vacuum potting and food vacuum packaging.

Other applications: Machine maintenance, dynamic pressure measurement and many more.

Waterproof, shockproof instruments: see GMH 51xx For higher pressures see instruments with external sensors: GMH 3111/-51/-56 or GMH 51xx

Technical Data

Sensors	2 (Variant -12: 1) universal pressure ports for 6x1) hoses or others, e.g. with inner Ø 6 mm Piezoresistive sensors, temperature compensated
Pressure units	mbar (=hPa), bar, Pa, kPa, MPa, mmHg, PSI, m water column, depending on variant!
Media Measuring cycle	Air and non-aggressive gases Approx. 4 measurements /s (GMH 3181 "Fast": 1000 / s)
Display	Two 4½-digit LCD displays (12.4 mm and 7 mm), plus additional information arrows
Operating elements	s 6 membrane keys
Output	3-pole jack socket Ø 3,5mm, optional serial
Serial interface	interface or analog output can be connected directly to the RS232 or USB interface of a PC via interface converter GRS 3100 / GRS 3105 or USB 3100 N (accessories).
Analog output	(only GMH 3181) 01 V, freely scalable (resolution 13 bit, accuracy 0.05 % at nominal temperature)
Power supply	9 V battery as well as additional power supply socket for external 10.5-12 V (Not EX versions!) low battery indicator
Battery life approx	Automatic switch-off, adjustable
Housing	impact-resistant ABS, membrane keypad, protection screen, mounting/suspension bracket (not EX versions)
Protection class	additionally with EX versions: leather protection bag IP40
Dimensions Weight approx.	142 (+16 mm socket) x 71 x 26 mm (H x W x D) 170 g (-EX: approx. 210 g incl. protection bag)
Ambient conditions	-25 to 50 °C; 0 to 95 % r.h. (non-condensing)
Standard functions	Min/Max/Hold Zero and slope adjustment GMH 31x1-12: Sea level correction
Additional functio	ns GMH 3181:
Logger function	manual: 99 data sets (recall via display or interface) autom.: 10,000 data sets (recall via interface), low power function for long time recording without power supply unit adjustable cycle time: 1 s 1 h Logger start and stop via keyboard or interface. Software GSOFT 3050 is available for reading out

Averaging over adjustable time averaged value is output -

Alarm function Alarm horn (Not EX versions!), display, adjustable

Additionally GMH 31x1-EX:

Electrostatic dissipative protective leather cover (ST-R1/ST-R2) EX-Approval $\langle \overline{c_x} \rangle$ II 2 G Ex ib IIC T4 Gb

Members of GHM GROUP:	GREISINGER	I	HONSBERG	Ι	Martens	Ι	IMTRON	Ι	<i>Lelta</i> ohm	VAL.CO
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Product Information

Certificate

EPS 09 ATEX 1 227 X

