

**Portable Manometer Type HMG 1**  
for small pressure, vacuum and differential pressure  
Ranges from 0 ... 1 mbar to 0 ... 1000 mbar  
Option: Analogue output 0-1 V



- Supervision of airblowers and airfilters
- Supervision of liquid levels
- Controlling of aircurrents
- Pressure controlling in clean rooms
- Medical engineerings

#### Description:

The portable manometer HMG 1 measures positive or negative overpressure, differential pressure or optionally volume current. Also an absolute pressure type is available. The measured values are shown on a well visible 3.5 digit LCD (12.7 mm high). Optional an analogue output 0-1 V is available. Because of the use of piezoresistive sensors, the HMG 1 reaches a high reliability and precision. The HMG 1 is battery operated (9 V, type 6F22). In case of low battery "low Bat" is shown in the display. Each instrument is supplied with an individual inspection certificate.

#### Available Types:

Type	Output Signal
HMG 1	no output signal
HMG 1-1	output 0-1 V

#### Technical Data:

Pressure Range [mbar]	Pressure Range [kPa]	Over-pressure [mbar]	Linear error max. [% f.s.]	Temp error (max) [±% f.s.] 0-50°C	long-term stability [% f.s.] per year	Repeatability [% f.s.]
0 - 1	0 - 0.1	250	0.5	4	2	1
0 - 2.5	0 - 0.25	250	0.8	2.5	2	0.3
0 - 5	0 - 0.5	250	0.8	1.2	1	0.3
0 - 10	0 - 1	250	0.8	1	0.5	0.2
0 - 25	0 - 2,5	350	0.7	1	0.1	0.1
0 - 50	0 - 10	350	0.7	1	0.1	0.1
0 - 100	0 - 25	350	0.5	1	0.1	0.1
0 - 1000	0 - 50	triple	0.5	1	0.1	0.1
0 - 1999	0 - 100	double	0.5	1	0.1	0.1
0 - 10 bar	0 - 1000	1.2-times	0.5	2	0.1	0.1
700-1100 absolute	70-110 absolute	triple	±0.9 mbar	±2.3 mbar	0.1%/year	0.1% FS

Operating temperature: -20°C to +70°C  
Hysteresis: 0.1%  
Compatible media: Air, non-aggressive gases  
Pressure connection: 2 connections for hoses with 4 mm inner diameter  
Weight: appr. 190 g (incl. battery - battery not included in standard supply)  
Protection: I  
Dimension: 85 mm x 160 mm x 31 mm  
Analogue output (only Type HMG 1-1): 0-1 V, RL >= 2 Kilo-Ohm; Electr. conn. 3.5 mm handle plug 2-pole  
Measuring rate: 2.5 measurements per second  
Zero adjustment: by potentiometer

