

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



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