

Model HM38

Digital pressure-calibrator

The pressure calibrator HM38 provides the user up to two individual pressure measuring ranges for over- and underpressure, differential or absolute pressure



General

The pressure calibrator HM38 provides the user with two individual pressure measuring ranges for over- and underpressure, differential or absolute pressure. It is possible simultaneously to measure and generate current and voltage. The illuminated display and the zoom function permit simple reading of the measured values. And of course with a datalogging function with interface RS232 and PC-software level Windows.

Further functions: measure/generate, leak rate, record, rampe, deviation, simulation and trigger.

Features

- Over- and underpressure / Differential or absolute pressure
- Battery- or power supply unit
- Direct current, measure / generate
- DC voltage, measure / generate
- Internal memory
- Interface RS232



Technical Data

Measuring ranges	Resolution	Max. loading capacity	Error limit F.S. 1 digit
0... 25 mbar	0,001	125 mbar	0,1%
0... 70 mbar	0,01	350 mbar	0,1% / 0,05%
0... 200 mbar	0,01	1500 mbar	0,1%
0... 300 mbar	0,01	1500 mbar	0,1% / 0,05%
0... 500 mbar	0,01	4000 mbar	0,1%
0... 1000 mbar	0,1	4000 mbar	0,1% / 0,05%
0... 2000 mbar	0,1	7000 mbar	0,1% / 0,05%
0... 7 bar	0,001	17 bar	0,1% / 0,05%
0... 10 bar	0,001	27 bar	0,1%
0... 17 bar	0,001	27 bar	0,1% / 0,05%
0... 30 bar	0,001	70 bar	0,1%
0... 70 bar	0,01	140 bar	0,1%
0... 1100 mbar abs	0,1	4000 mbar	0,1%
0... 2000 mbar abs	0,1	7000 mbar	0,1% / 0,05%
0... 7 bar abs	0,001	17 bar	0,1%

Measuring media: instrument air, inert gases
 -Versions 30/70 bar: all media which are compatible with stainless steel 18/8 (DIN 1.4305).

Units of measurement: mbar, bar, kPa, hPa, MPa, mmH₂O, mH₂O, mmHg, psi, inH₂O, inHg

- Direct current

Measure	resolution	accuracy
0...24 mADC	1 µA	±0,025 % F.S. ±1 digit
Generate		
0...24 mADC	1 µA	±0,05 % F.S. ±1 digit
- DC voltage

Measure	resolution	accuracy
0...30 VDC	1 mV	±0,025 % F.S. ±1 digit
Generate		
0...1 VDC	0,1 mV	±0,05 % F.S. ±1 digit
- Operating temperature: -5 ... +50 °C (temp. compensation)
- Temperature calibration: 10... 35 °C
- Temperature effects:

≤70 mbar	±0,02 %/°C
≥ 200 mbar	±0,005 %/°C
- Measuring rate (RS232): 25 readings/second
- Current consumption: < 30 mA without generate
- Supply: 9 V Battery or power supply unit
- Memory interval: manual, 1 ... 99 sec/min/h selectable
- Measurement sockets: 4 mm, gold-plated
- Pneumatic connection: tube Ø 4/6mm, NPT 1/8" female > 7 bar
- Case, type of protection: IP 54
- Case dimension: 152 x 83 x 34/29 mm
- Weight incl. battery: 300 grams

We reserve the rights to alter at any time this technical specifications without notice.

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