



Features

- Relative-, differential- or absolute pressure
- Temperature from measuring medium
- Mains operation (non EX version)
- 22 selectable measurement units
- Measuring range -1 to 250 bar
- Infrared interface (IR)
- Integrated memory
- Battery operation
- Average function
- Special models on request

Description

The most impressive feature of the HM35 and HM35 EX manometer is the versatile range of applications. It allows measurements in the area of relative, differential or absolute pressure. The EX-version meets all requirements for applications in hazardous areas (Ex ia IIC T4). Functions such as pressure change rate, MIN/MAX and average value are available, in addition the HM35 / HM35 EX can also be individually configured for different applications. A large, well readable graphics display, its handy size, a real time clock including date, the background illumination, the data memory for 10'000 measurements... only to mention a few highlights - facilitate its use. Via the infrared interface (IR), all data can be transferred directly to any PC. A communication software for Windows is also available. 22 selectable measurement units complete off the specification of this precise manometer.

Technical Data

| Measuring ranges | | Resolution | Max. load capacity | | F.S. ± 1 digit | Error limit of rdg. ± 1 digit |
|------------------|----------|------------|--------------------|------|---------------------|--------------------------------------|
| 0... 25 | mbar | 0,001 | 125 | mbar | 0,2% / 0,1% / 0,05% | |
| 0... 70 | mbar | 0,001 | 350 | mbar | 0,2% / 0,1% / 0,05% | 0.1% |
| 0... 200 | mbar | 0,01 | 1500 | mbar | 0,2% / 0,1% | |
| 0... 300 | mbar | 0,01 | 1500 | mbar | 0,2% / 0,1% / 0,05% | 0.1% |
| 0... 500 | mbar | 0,01 | 4000 | mbar | 0,2% / 0,1% | |
| 0... 1000 | mbar | 0,01 | 4000 | mbar | 0,2% / 0,1% / 0,05% | 0.1% |
| 0... 2000 | mbar | 0,1 | 7000 | mbar | 0,2% / 0,1% / 0,05% | 0.1% |
| 0... 7500 | mbar | 0,1 | 17 | bar | 0,2% / 0,1% / 0,05% | 0,1% |
| 0... 10 | bar | 0,0001 | 27 | bar | 0,2% / 0,1% / 0,05% | |
| 0... 17 | bar | 0,0001 | 27 | bar | 0,2% / 0,1% / 0,05% | 0.1% |
| 0... 35 | bar | 0,001 | 70 | bar | 0,2% / 0,1% | |
| 0... 70 | bar | 0,001 | 140 | bar | 0,2% / 0,1% | 0.1% |
| 0... 90 | bar | 0,001 | 140 | bar | 0,2% / 0,1% | 0.1% |
| 0... 100 | bar | 0,001 | 140 | bar | 0,2% / 0,1% | 0.1% |
| 0... 250 | bar | 0,001 | 500 | bar | 0,2% / 0,1% | 0.1% |
| 0... 1100 | mbar abs | 0,01 | 4000 | mbar | 0,2% / 0,1% | |
| 0... 2000 | mbar abs | 0,1 | 7000 | mbar | 0,2% / 0,1% / 0,05% | 0.1% |
| 0... 7500 | mbar abs | 0,1 | 17 | bar | 0,2% / 0,1% | 0.1% |
| 0... 10000 | mbar abs | 0,1 | 20 | bar | 0,2% / 0,1% | |
| 0... 17000 | mbar abs | 0,1 | 30 | bar | 0,2% / 0,1% | |

Measuring media: inert gases and instrument air
 Media compatible rel./abs.: all media which are compatible with stainless steel 18/8 (DIN 1.4305)

Units of measurement: mbar, bar, Pa, kPa, hPa, MPa,
 (depending on range) kg/cm², kg/m², mmHg, cmHg, mHg, inHg, mmH₂O, cmH₂O, mH₂O, inH₂O, ftH₂O, psi, Ib/in², lb/ft², torr, atm

- Temperature calibration: 0 °C... 50 °C
- Operating temperature: 0 °C... 50 °C
- Humidity: max. 95 % rH
- Communication: serial Infrared (IR) Protocol and SCPI-commands
- Display rate: 2 M/s
- Power supply: 3 x 1.5 V battery IEC LR6
- Battery life time: approx. 90 h or power supply unit 6 VDC
approx. 60 h EX-Version (no power supply connection available)
- Memory interval: manual, 10, 25 M/s, 1s... 24h selectable
- Pneumatic connection: hose \varnothing 4/6 mm NPT 1/8" (from 10 bar)
- Case, type of protection: IP 54
- Case dimension: 200 x 94/58 x 40/28 mm
- Weight incl. batteries: 300 grams