

# Model HM35



## Digital Manometer

The Digital Manometer HM35 provides the user up to 16 pressure measuring ranges for gauge, differential or absolute pressure (see the table)



### General

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 (EEx 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.

### Features

- Relative pressure / differential pressure / absolute pressure
- Battery operation
- Main operation (Version non EX only)
- 22 selectable measurement units
- Data memory
- Infrared interface (IR)

## Features

Measuring ranges	Resolution	Max. load capacity	Error limit	
			F.S. $\pm 1$ digit	of rdg. $\pm 1$ digit
0... 25 mbar	0,001	125 mbar	0,2% / 0,1%	
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... 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... 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%

Measuring media: inert gases and instrument air  
 Media compatible rel./abs.: all media which are compatible with stainless steel 18/8 (DIN 1.4305).  
 Range from 1 bar to 90 bar

Units of measurement:  
 (depending on range) mbar, bar, Pa, kPa, hPa, MPa,  
 kg/cm<sup>2</sup>, kg/m<sup>2</sup>, mmHg, cmHg, mHg, inHg, mmH<sub>2</sub>O, cmH<sub>2</sub>O, mH<sub>2</sub>O,  
 inH<sub>2</sub>O, ftH<sub>2</sub>O, psi, lb/in<sup>2</sup>, lb/ft<sup>2</sup>, 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: appr. 90 h or power supply unit 6 VDC  
 appr. 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