



MG20

Specifications

- Portable Pressure-Calibrator
- Easy Operation
- Generating Over- and Under- Pressure
- Measuring ranges from -800 mbar up to 17 bar
- Rugged, Compact, Light
- Integrated Datalogger
- Infrared Interface (IR)
- Average Value
- Battery operation
- Special Constructions available on request

Description

The mobile Pressure-Generator MG20 is equipped with our digital handheld pressure gauge HM35. It allows measurements of relative-, differential, or absolute-, pressure. The integrated pressure generator is capable of producing over-pressure up to 10 bar and under-pressure up to -800 mbar. Fine adjusting the pressure is done via integrated variable volume. Ex versions and media-compatible versions are also available. Functions such as pressure change rate, MIN/MAX and average value are available. At delivery, the MG20 comes including an SCS-certificate.

Technical Data

Pressure simulation is done via handpump and variable volume

Over-pressure range: 0...10 bar
 Under-pressure range: 0...-800 mbar

Measuring range	Resolution	Max. Load capacity		Accuracy	
				v.E. ± 1 digit	v. Mw. ± 1 digit
0... 25 mbar	0,001	125 mbar	mbar	0,2% / 0,1% / 0,05%	
0... 70 mbar	0,001	350 mbar	mbar	0,2% / 0,1% / 0,05%	
0... 200 mbar	0,01	1500 mbar	mbar	0,2% / 0,1%	
0... 300 mbar	0,01	1500 mbar	mbar	0,2% / 0,1% / 0,05%	
0... 500 mbar	0,01	4000 mbar	mbar	0,2% / 0,1%	
0... 1000 mbar	0,01	4000 mbar	mbar	0,2% / 0,1% / 0,05%	
0... 2000 mbar	0,1	7000 mbar	mbar	0,2% / 0,1% / 0,05%	
0... 7500 mbar	0,1	17 bar	bar	0,2% / 0,1% / 0,05%	
0... 10 bar	0,0001	27 bar	bar	0,2% / 0,1% / 0,05%	
0... 17 bar	0,0001	27 bar	bar	0,2% / 0,1% / 0,05%	
0... 1100 mbar abs	0,01	4000 mbar	mbar	0,2% / 0,1%	
0... 2000 mbar abs	0,1	7000 mbar	mbar	0,2% / 0,1% / 0,05%	
0... 7500 mbar abs	0,1	17 bar	bar	0,2% / 0,1%	
0... 10000 mbar abs	0,1	20 bar	bar	0,2% / 0,1%	
0... 17000 mbar abs	0,1	30 bar	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)

Measurement units: 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 Ø 4/6 mm NPT 1/8" (from 10 bar)
- Case, type of protection: IP 54

- Case dimensions: 158 x 108 x 259 mm
- Weight without HM35: 2100 Gramm