

Hand-held instruments for pressure

MH 3161 and MH 3181

MH 3161

Digital universal pressure hand-held instrument with internal piezoresistive pressure sensor for air and non-corrosive / ionizing gases and fluids

- Pressure types
Overpressure, negative pressure, differential and absolute pressure, air pressure/ barometer, vacuum
- Inputs
2 x metal connection plugs for pressure hose 6 x 1 mm
- Measuring ranges / resolution
-19999...19999 digit

Type	Measuring range	Over load	Resolution
MH 3161-01	-1...25 mbar (rel.)	100 mbar	(0.01 mbar)
MH 3161-07	-10...350 mbar (rel.)	1 bar	(0.1 mbar)
MH 3161-12	0...1300 mbar (abs.)	4 bar	(1 mbar)
MH 3161-13	-100...2000 mbar (rel.)	4 bar	(1 mbar)

- Accuracy
±0.2 % full scale (hysteresis and linearity)
- Units
mbar, bar, Pa, kPa, MPa, mmHg, PSI, mH₂O
- PC Interface
Data link with serial PC-Interface
DC-isolated and short-circuit proof
- Measuring rate
4 measurements / s

MH3181

Same as MH 3161

Additional analogue output

Logger-, alarm- and clock functions

Selectable measuring rate and average calculation

Type	Measuring range	Over load	Resolution
MH 3181-01	-1...25 mbar (rel.)	100 mbar	(0.01 mbar)
MH 3181-07	-10...350 mbar (rel.)	1 bar	(0.1 mbar)
MH 3181-12	0...1300 mbar (abs.)	4 bar	(1 mbar)
MH 3181-13	-100...2000 mbar (rel.)	4 bar	(1 mbar)

Types MH 3161 and MH 3181



- Outputs
Analogue output 0...1 V
Scalable for easy data readout
- Alarm and time display
Min-max alarm signal via display, interface and buzzer
Real time clock with date and year indication
- Data storage (Log function)
STORE
99 data sets (measured value, min / max value, time, date)
Manual data set reading via keystroke
CYCLE
9999 data sets (measured or average value, min / max value)
Automatic data set reading in the set interval
Adjustable measurement interval 1 s...60 minutes
- Measuring rates
SLOW = 4 measurements / s
FAST = 100 measurements / s
PEAK = 1000 measurements / s
- Average calculation
Via integration of measurement values at the adjustable interval
- Options
higher accuracy sensor (available from 350 mbar)
EXI-Version (Ex ib IIC T4 - 03ATEX0136X)