

Pressure

Pressure Measuring Device PM 45

Art.-No. 127 14 001



Hand meter

Description

The PM 45 is a fully micro processor controlled, piezo-resistive hand meter for measuring of barometric pressures up to 100 mbar. Digital processing of the measured values, internal linearity correction and temperature compensation ensure long-time accuracy of the measured values. Zero correction is effected over the key-board.

The measured values are displayed in three selectable units so that the results do not have to be converted. The modern LCD gives a complete and quick survey of the current status of the PM 45 as text note.

The measuring value is 4-digit, the unit is displayed on a 7 x 12 pixels large dot matrix.

The meter has four operation keys only. The data logging function as well as the memory for maximum and minimum values facilitate the documentation of the measuring results. An analogue output and an RS 232 C interface allow external processing of the measuring values by means of an optional PC programme under Windows.

Correct measuring results are ensured by battery supervision with "low bat"-indication and switch-off below a minimum voltage. The device is protected against accidental switch-off by a delayed switch-off.

Technical Data

Display	LCD 4-digit, 7-segment with additional dot matrix and function texts
Measuring ranges	-100.00 to +100.00 mbar (one or two decimal points optional) -10.00 to +10.00 kPa (two or three decimal point optional) -1.45 to +1.45 PSI
Operation voltage	9 V block battery (external feed possible)
Operation time	> 50 hours
Battery supervision	Low Bat Display
Auto Power Off	to be set by PC
Accuracy*	0.5 % of final value
Linearity error	max. 0.25 %
Possible Overload	75 kPa
Pressure connections	2 quick couplings
Analogue outlet	-1 to +1 V
Interface	RS 232 C
Data logger	> 700 measuring values
Dimensions	150 mm x 80 mm x 30 mm
Weight	approx. 200 g

*) Display precision depends on the position.
Measuring must be effected in a specified position.

Accessories

Adapter piece (pressure connection) please order 2 pieces	Art.-No. 127 21 000
6-pole mini DIN plug (analogue output)	Art.-No. 117 22 200
Power supply 230 V AC / 9 V	Art.-No. 116 13 001
Protection case	Art.-No. 116 12 000
PC programme incl. RS 232 C cable	Art.-No. 117 30 000