



Highest Precision Pressure Meter

U-tube-manometer for precision measurements

Measuring range MIN2	: 20 mbar or 200 mmWc
Resolution	: 1/1000 mbar or 1/100 mmWc
Accuracy	: 1/100 mbar or 1/10 mmWc
Reference temperature	: 20°C
Reference gravitation	: 9,80665 m/s ²
Filling liquid	: water (reduced sodium)
Scale graduation in mbar or mmWc	

Application:

The MINISKOP is used in laboratories, scientific institutes, measuring and control departments and heat generating works. It is used as standard instrument for calibration purpose or for highly accurate operation measurements. The MINISKOP is indispensable for measurements done by the Technical Inspection Boards, industrial furnace makers and heating- and ventilation industry. For this purpose it is widely used for many years already. It is suitable for flow measurements of smallest flow pressure, e.g. in the wind tunnel or by means of a Venturi tube. The MINISKOP is easy to handle and of highest precision.

Description:

The MINISKOP is a U-tube which measures positive pressure or differential pressure up to a static pressure of 0,6 bar. It should be filled with reduced sodium water. The casing consists of light alloy. The float, a precision-made hollow body made of stainless steel, is swimming in the inner tube. The glass scale is fixed to the lower part of the float.

Resolution:

The measuring positive pressure or differential pressure works on the inner tube. For each measuring pressure the level lowering can only be determined by relation of the cross sections of the inner to the outer tube. There are no other influences of noticeable importance on the accuracy. The small production tolerance will be corrected by a displacement rod. The float has a limited space inside the tube and runs smoothly. Even a large change of 1/1000 mbar or 1/100 mmWc is observed by the float (measuring results lightly knocked).

Reading:

The scale is divided in mbar or mmWc. It can be observed by a reading telescope with reading mark. The optical can magnificate up to 10 times. By means of a micrometer slide the objective can be lifted or lowered, until the reading mark covers the next lower scale mark. The scale is showing the full 1/10 mbar, the micrometer drum shows 1/100 mbar and 1/1000 mbar. By measuring range mmWc the scale is showing 1/1 mmWc, the micrometer drum shows 1/10 mmWc and 1/100 mmWc.

MINISKOP

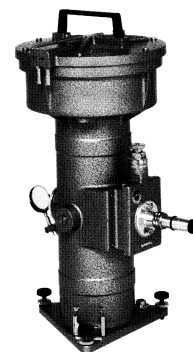


Bild 1
MINISKOP Typ Min 2