

Barometr - Absolute Pressure Meter, model CMCB-11

Application

Barometer allows for measurement of absolute pressure in the range of 50 ÷ 1500 hPa, with uncertainty of reading lower than ±1 hPa. Reading resolution - 0,1 hPa. This instrument is a portable device with power supply from the accumulator, in the casing made of plastic (ABS).

Construction of the meter

The piezoresistive semiconductor sensor in bridge circuit, was used to measure the pressure. The above mentioned sensor was used in CMCB-11 in order to obtain highly accurate measurements, almost linear static characteristic, long - termed stability of readings and to reduce the influence of reading hysteresis as well as temperature hysteresis. The electronic part of the meter is composed of precise analogue input circuits and the microprocessor which controls the operation of the entire system. The display field is composed of five electroluminescent seven-segment displays providing increased lighting intensity that guarantee perfect reading. Owing to the microprocessor system, the instrument is individually calibrated, linearized and thermally compensated for the temperature range of 0 ÷ 50 °C. Upon special order, the meters are made for extended operating temperature range.



Technical data:

- Pressure measuring range 500 ÷ 1500 hPa,
- Pressure reading resolution 0,1 hPa.
- Expanded reading uncertainty 95%, hPa ±1.
- Measurement frequency Hz 2
- Operating temperature range 0 ÷ 50 °C,
- Power supply from own accumulator or from the external power adapter 12V/ 250mA
- Dimensions (height x width x length) 30 x 85 x 150 mm,
- Weight without the external power adapter 0,25 kg.