

HM 170.50

16 tube manometers, 600mm



The illustration shows HM 170.50 together with HM 170

Description

- **manometer for displaying differential pressure characteristics**
- **up to 16 differential pressures can be measured simultaneously**

The HM 170.50 manometer is used to simultaneously display up to 16 measured differential pressures in millimetres water column. The manometer utilises the principle of communicating tubes. The zero point is adjusted using a vertically sliding compensation chamber as a function of the measuring task. The resolution can (with a simultaneous reduction of the measuring range) be increased by inclining the unit. The manometers are fixed to the frame of HM 170.

HM 170.50 is recommended as an accessory for experiments on pressure distribution on aerofoils HM 170.22, HM 170.26, HM 170.27, on pressure distribution on a cylinder HM 170.23 and for experiments on wake measurement HM 170.28.

Learning objectives/experiments

- measurement of differential pressures

Specification

- [1] unit for differential pressure measurement/display of differential pressure characteristics
- [2] accessory for the wind tunnel HM 170
- [3] simultaneous display of up to 16 differential pressures
- [4] individual zero point adjustment possible
- [5] manometer inclination up to max. 1/10

Technical data

Tube manometer

- manometer tube
 - ▶ number: 16
 - ▶ material: glas
 - ▶ Ø 9mm, outside
 - ▶ Ø 7mm, inside
- inclination: 1:1, 1:2, 1:5, 1:10
- resolution: 0,01 mbar at inclination: 1:10
- zero point adjustment

Measuring ranges

- differential pressure: max. 60mbar

LxWxH: 670x220x750mm

Weight: approx. 26kg

Scope of delivery

- 1 tube manometers, completely assembled

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Required accessories

HM 170 Open wind tunnel