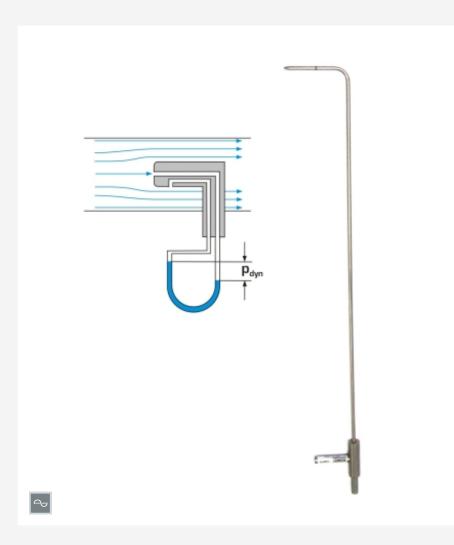


# **HM 170.33**

## Pitotstatic tube



#### Learning objectives/experiments

- measurement of the dynamic pressure component in a flowing fluid
- determination of the velocity in a flowing fluid

## Specification

- [1] Pitotstatic tube for measuring pressure in a fluid flow
- [2] accessory for the wind tunnel HM 170
- [3] nickel-plated Pitotstatic tube
- [4] the following units can be used for pressure indication: inclined tube manometer included in HM 170, differential pressure manometer HM 170.53, electronic pressure measurement HM 170.55 or system for data acquisition HM 170.60

## Technical data

Pitotstatic tube

- effective length: 250mm
- diameter: Ø=3mm

Weight: approx. 0,3kg

## Scope of delivery

l Pitotstatic tube

#### Description

- measurement of the dynamic pressure component in a flowing
- determination of the velocity in a flowing fluid

The Pitotstatic tube provides the difference between the total pressure in a flow and the static pressure as a measuring value. The tube is connected to a differential pressure gauge that indicates the dynamic pressure, this is a measure of the velocity of the flow.

To indicate the pressure, the following units are optionally available: inclined tube manometer included in HM 170, differential pressure manometer HM 170.53, electronic pressure measurement HM 170.55 or system for data acquisition HM 170.60.



# **HM 170.33**

## Pitotstatic tube

Required accessories

HM 170 Open wind tunnel

## Optional accessories

HM 170.50 16 tube manometers, 600mm

HM 170.55 Electronic pressure measurement for HM 170

HM 170.53 Differential pressure manometer HM 170.60 System for data acquisition