

HM 161.13

Electronic pressure measurement



Description

■ simultaneous display of ten pressure heads along the experimental section of HM 161

It is important to know the discharge depth for many experiments in open channel flow.

Using HM 161.13, the discharge depths in form of pressure heads are recorded. For this purpose, the measuring amplifier is connected to the switch cabinet of HM 161 and automatically identified by the PLC. Depending on the experiment, up to ten selected measuring points can be connected along the experimental section. Additionally, the flow rate of HM 161 is recorded and displayed on the touch screen of the PLC.

The measured values are transmitted to a PC. By matching the pressure sensors with the measuring points, a curve of the pressure heads along the experimental section can be displayed in the software. The recording of the flow rate enables the display of the pressure head as a function of the flow rate.

A second measuring amplifier HM 161.13 can be used simultaneously to display the pressure heads of 20 measuring points of the experimental section.

Specification

- [1] simultaneous display of up to ten pressure heads along the experimental section of HM 161
- [2] automatic identification of the measuring amplifier in the PLC
- [3] display of the measured values on the touch screen and in the software
- [4] additionally in the software: matching of the measuring points and display of the pressure curve
- [5] measuring amplifier with inputs for the flow rate sensor of HM 161 and the pressure sensors
- [6] connection for second measuring amplifier available
- [7] storage system to house the components

Technical data

Measuring ranges

- pressure: 10x 0... 100mbar, corresponds to 0...1000mmWC

LxWxH: 370x330x160mm (measuring amplifier)

LxWxH: 600x400x320mm (storage system)

Weight: approx. 17kg (total)

Scope of delivery

- 1 measuring amplifier
- 10 pressure sensors with cables
- 1 set of accessories
- 1 storage system
- 1 manual

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Required accessories

HM 161 Experimental flume 600x800mm