

# HM 162.13

## Electronic pressure measurement



### Description

- simultaneous display of ten pressure heads along the experimental section of HM 162 or HM 163
- second measuring amplifier can be connected additionally

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

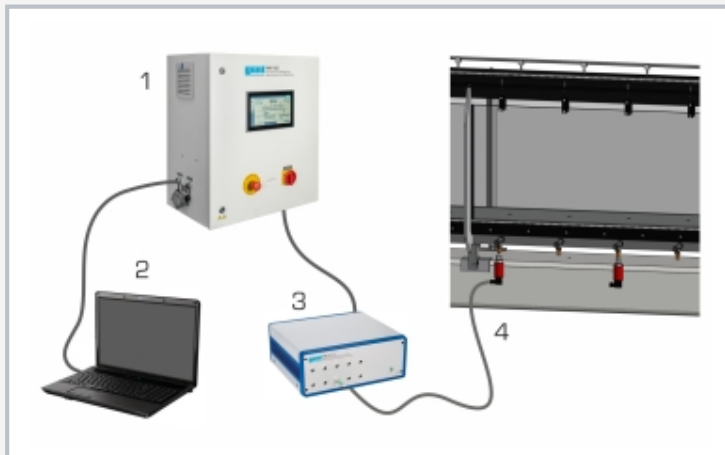
Using HM 162.13, the discharge depths in form of pressure heads are recorded. For this purpose, the measuring amplifier is connected to the switch cabinet of HM 162 or HM 163 and automatically identified by the PLC. Depending on the experiment, up to ten selected measuring points can be connected along the experimental section of HM 162 or HM 163.

The measured values are transmitted to a PC via a CAN bus connection. 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 162.13 can be used simultaneously to display the pressure heads of 20 measuring points of the experimental section.

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1 switch cabinet of the experimental flume HM 162/HM163 with displays and controls, 2 PC (optional, not included), 3 measuring amplifier, 4 connection pressure sensor at measuring point of the experimental flume, up to 10 pressure sensors can be connected and displayed simultaneously



Display of pressure levels on the touch screen



Software screenshot: experimental setup with two control structures (gate at measuring point 17, weir at measuring points 2, 3 and 6)

### Specification

- [1] simultaneous display of up to ten pressure heads along the experimental section of HM 162 or HM 163
- [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 162/HM 163 and the pressure sensors
- [6] connection for second measuring amplifier available
- [7] max. distance between PC and switch cabinet approx. 6m
- [8] storage system to house the components

### Technical data

#### Measuring ranges

- pressure: 10x 0... 100mbar, corresponds to 0...1000mmWC
- flow rate: 1x 5,4...130m<sup>3</sup>/h

storage system: measuring amplifier  
LxWxH: 600x400x285mm  
storage system: pressure transducer  
LxWxH: 600x400x235mm  
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 162	Experimental flume 309x450mm
or	
HM 163	Experimental flume 409x500mm