

HM 500 + Accessories

Methods of flow rate measurement

Properties and applications of different flow meters

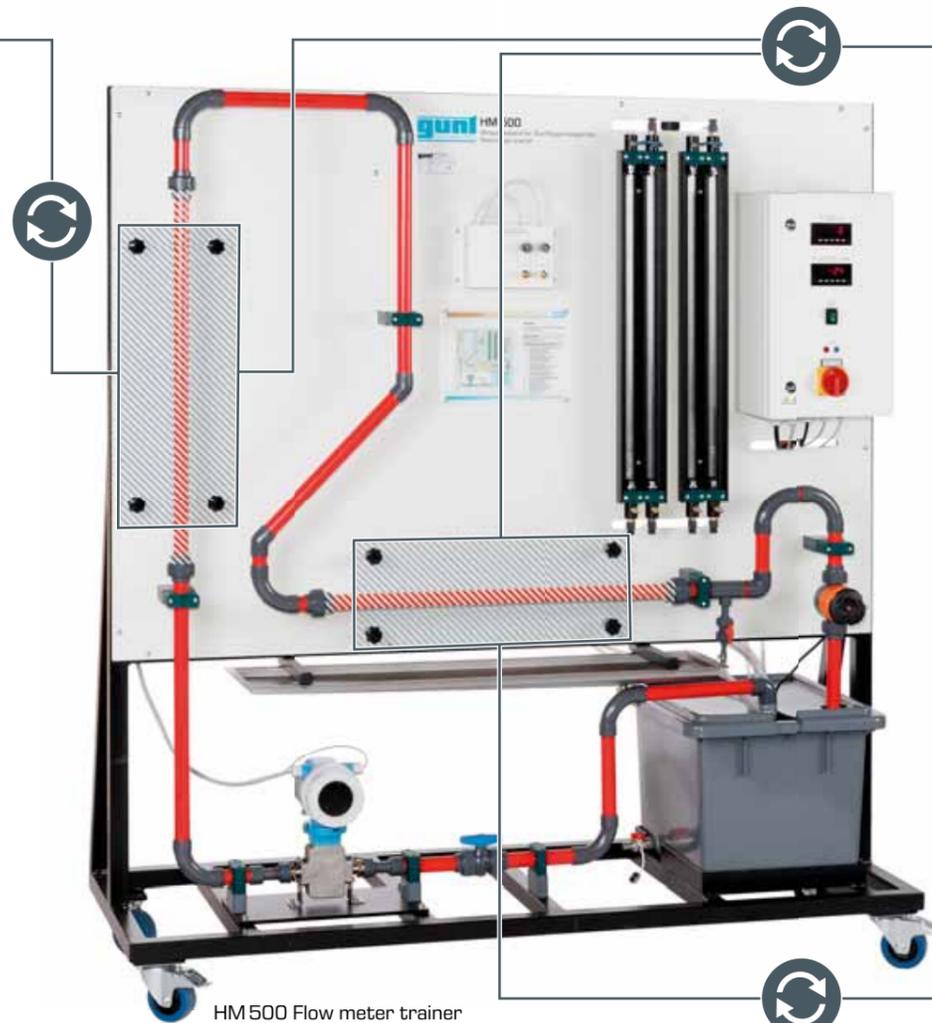
The extensive range of accessories for the HM 500 trainer offers the opportunity to learn about many different types of flow meter and the fields of applications of the various instruments. In practice, the working medium, the accuracy demands imposed, the position of the measuring instrument and the commercial considerations play an important role. Knowledge of the pressure losses of the different instruments is necessary for their application. Therefore, each instrument for the HM 500 trainer is equipped with connections for measuring the pressure loss. The instruments are connected to the trainer via hoses. The pressure losses are displayed on the trainer accordingly.

The comprehensive instructional materials cover the principle of operation of each flow meter including the theoretical basis. In this way students are familiarised with measurement accuracy and the differences between the measurement principles. Practical experiments make it possible to apply and review the acquired knowledge.

If required, the measuring devices can be powered by the trainer.

The position is important for correct operation:
only upright mounting

HM 500.01
Rotameter
HM 500.03
Rotameter with transducer
Both flow meters are identical in design and must be installed vertically due to their measuring principle.



HM 500 Flow meter trainer

Operation independent of position: upright or horizontal mounting

HM 500.05
Ultrasonic flow meter



HM 500.07
Pitot tube



HM 500.10
Paddle wheel flow meter



HM 500.11
Vortex flow meter



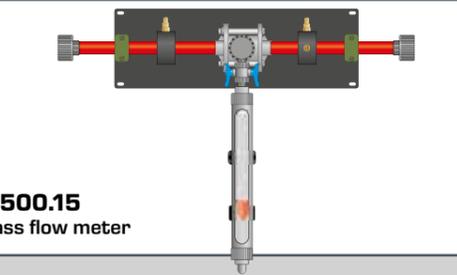
HM 500.13
Orifice plate flow meter with transducer



HM 500.14
Turbine wheel flow meter



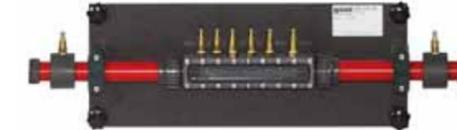
HM 500.15
Bypass flow meter



HM 500.04
Electromagnetic flow meter



HM 500.06
Venturi nozzle



HM 500.08
Orifice plate flow meter



HM 500.09
Measuring nozzle



HM 500.16
Baffle plate flow meter



The position is important for correct operation: only horizontal mounting