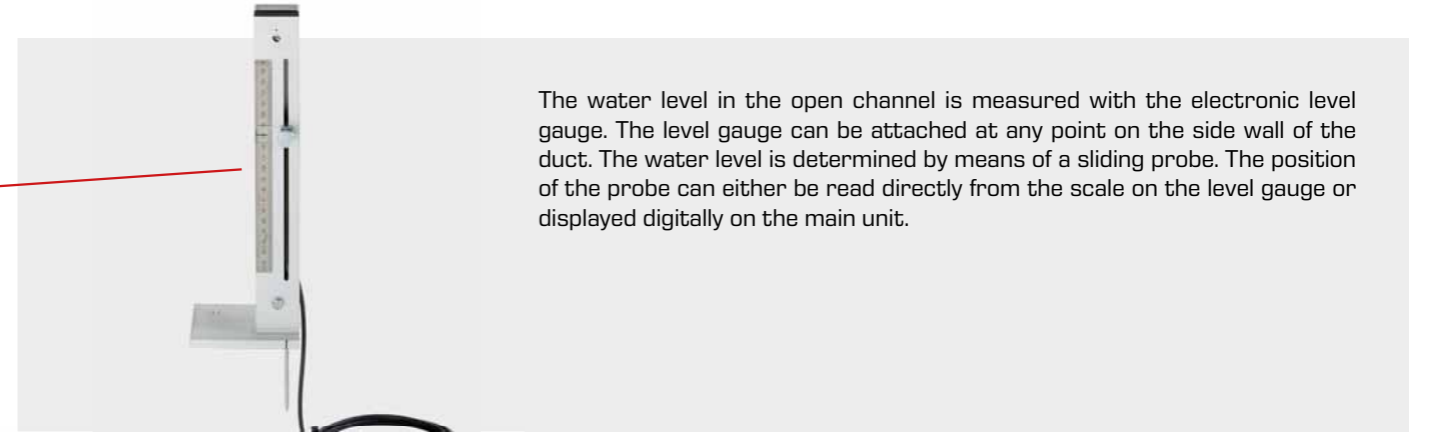
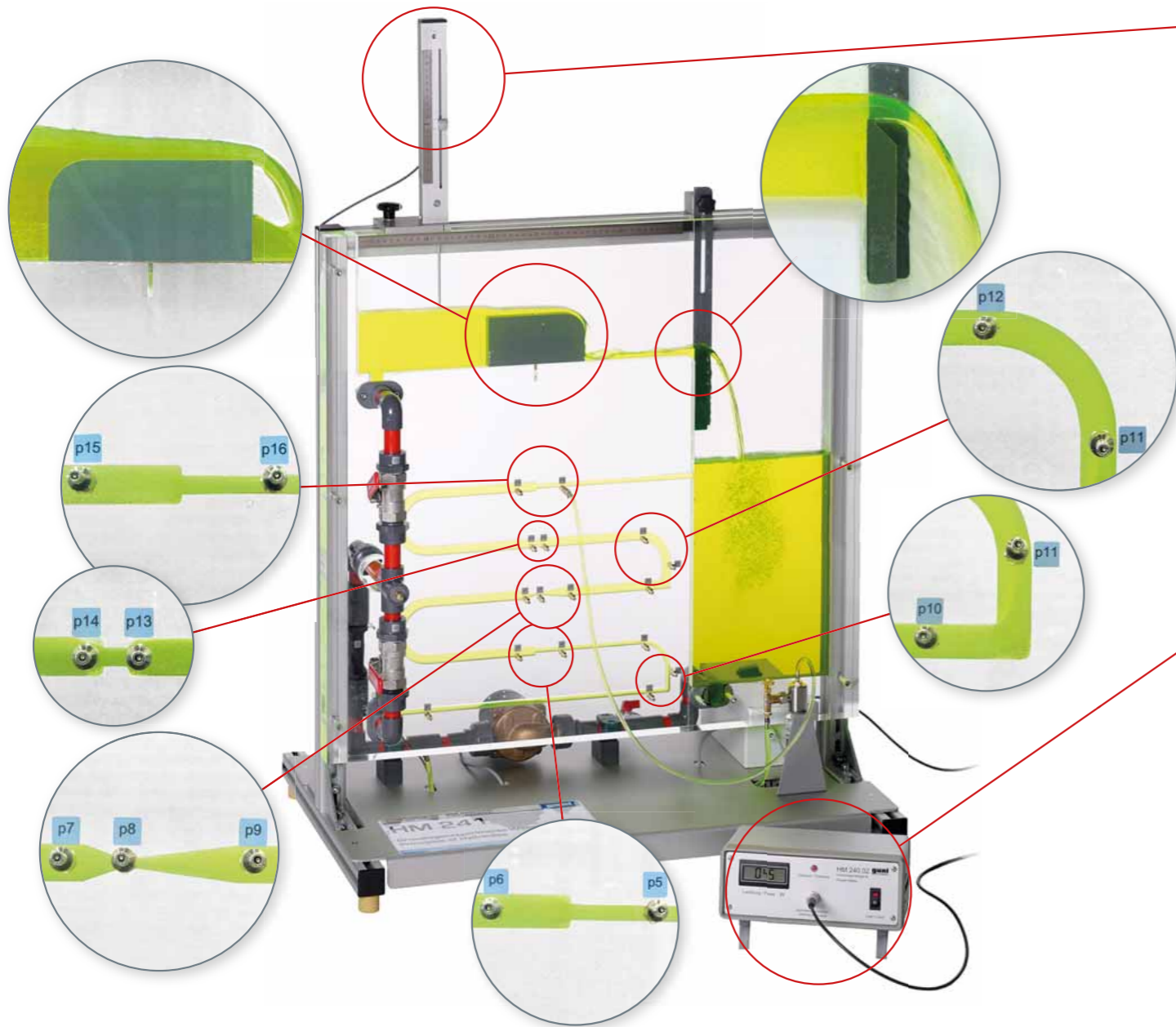


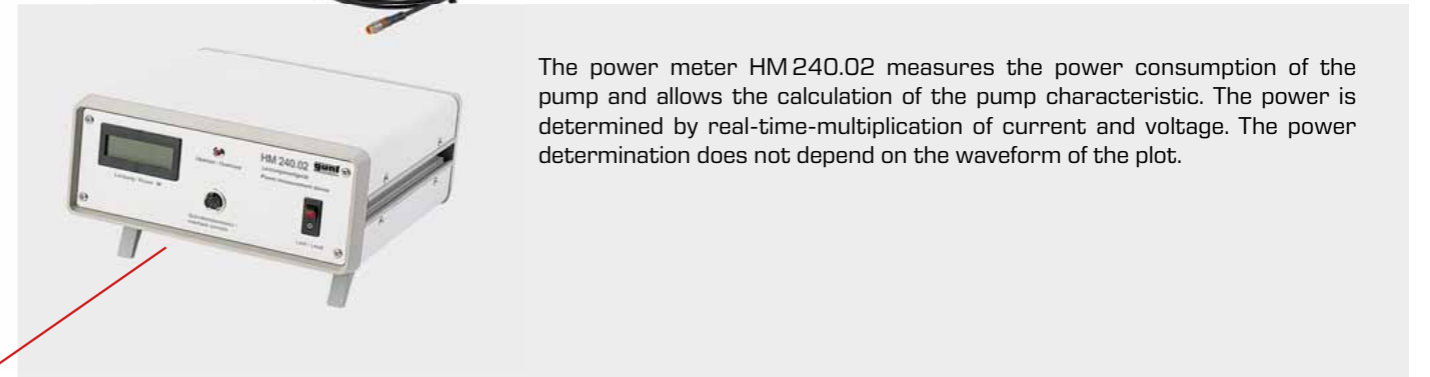
HM 241 Fundamentals of water flow

HM 241 is suitable for conducting basic experiments in the field of incompressible flow. This tabletop demonstrator only requires a small amount of space, is simple to use and offers particularly

illustrative experiments thanks to the transparent design. The measured values are displayed on a PC. The experimental unit does not require a water connection.

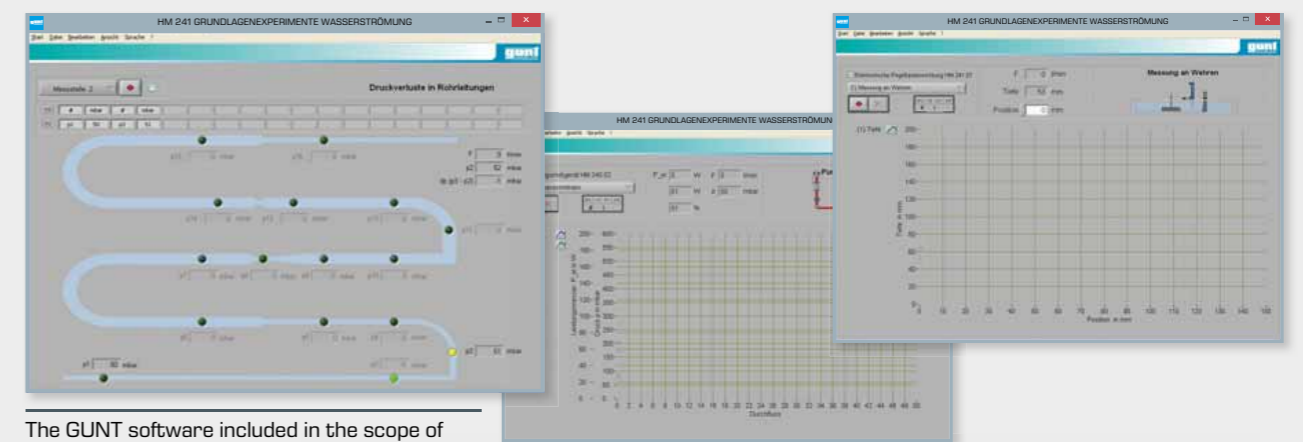


The water level in the open channel is measured with the electronic level gauge. The level gauge can be attached at any point on the side wall of the duct. The water level is determined by means of a sliding probe. The position of the probe can either be read directly from the scale on the level gauge or displayed digitally on the main unit.



The power meter HM 240.02 measures the power consumption of the pump and allows the calculation of the pump characteristic. The power is determined by real-time-multiplication of current and voltage. The power determination does not depend on the waveform of the plot.

Software for data acquisition



The GUNT software included in the scope of delivery displays the measurement results and assists in the evaluation of the experiments.

The series includes extensive experiments on the subject of pipe flow and open-channel flow.

All major pipe elements such as:

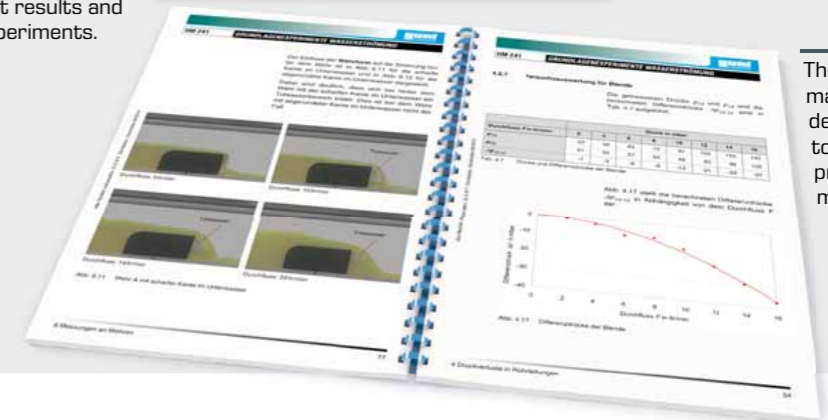
- straight pipe sections, pipes with different cross-sections
- pipe bends, pipe angles
- enlargements, contractions
- nozzles, orifices

are clearly displayed in a compact space.

Open-channel flow and its main effects such as:

- overfall over the weir
- supercritical flow

can be seen especially well in the transparent open channel.



The instructional material includes a detailed introduction to the fundamental principles of fluid mechanics.