

Product Name :
Fundamentals of Pressure Measurement**Product Code :**
FUDE0007**Description :**

Fundamentals of Pressure Measurement

Technical Specification :

- comparison of different pressure measurement methods
- measuring positive and negative pressure
- calibration device with Bourdon tube pressure gauge for calibrating mechanical manometers

Measuring pressure is important in the engineering industry, e.g. in plant, turbomachine and aircraft construction and in process engineering. Other fundamental factors such as flow rate or flow velocity can also be determined based on a pressure measurement.

The MR-WL 203 experimental unit enables the user to measure the pressure with two different measuring methods: directly by measuring the length of a liquid column (U-tube manometer, inclined tube manometer) and indirectly by measuring the change of shape of a Bourdon tube (Bourdon tube pressure gauge).

In a U-tube manometer, the pressure causes the liquid column to move. The pressure difference is read directly from a scale and is the measure for the applied pressure. In inclined tube manometers, one leg points diagonally up. A small height difference therefore changes the length of the liquid column significantly.



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