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# U8557260 - Apparatus for Measuring Young's Modulus Order code: 5401.1018527



Cena bez DPH Price with VAT 896,00 Eur

1.084,16 Eur

Parameters

#### Quantitative unit

Measuring apparatus for investigating the elastic deformation of rods of flat geome-try and for determining the modulus of elasticity. Features a strain gauge unit for determining the deformation of electrically conducting material samples. The strain gauge unit is electrically connected to the material sample in such a way that placing of the probes on the sample is determined with a high degree of sensi-tivity and displayed with the help of two LEDs. The bending of the material sample with the weight suspended is measured to an accuracy of 0.01 mm and the modulus of elasticity can then be calculated from the reading. Battery for strain gauge unit: 9 V, 6F22

### Contents:

- 6 Flat steel rods (w: 15 mm, l: 200 / 300 / 400 mm, thickness: 2 / 3 mm)
- 1 Strain gauge unit
- 1 Horizontal beam with stand
- 2 Knife-edge bearings
- 1 Clamping chuck
- 1 Set of weights and retaining clamps

### **Experiment Topics:**

Elastic deformation of flat bars Determining modulus of elasticity

### Advantages:

Load characteristics of the strain gauge may be ignored Measurements can be set up with the material samples supported on both sides or clamped at one end

## **Technical data:**

Dimensions: 550 x 280 x 500 mm Weight: 5.5 kg approx