

Product Name :
Free Vibrations In A Bending Beam

Product Code :
TN621



Description :

Free Vibrations In A Bending Beam

Technical Specification :

The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:

Free vibration in a vertical and horizontal bending beam

Determine the natural frequency according to rayleigh

How clamping length and mass affect the natural frequency

Included mounting frame

Specifications:

Investigation of the free vibration on a bending beam

Elastic bending beam with sliding weights

Bending beam can be

On all four sides of the frame

Amplitude measurement via strain gauge and measuring amplifier

Measuring results displayed on a pc

Fixable length scale

Storage system for parts

Software for data acquisition via USB under Windows 7, 8.1, 10 included PC1 Computer-System with 21" TFT-Monitor Win 10 engl.

Technical Data

Bending beam

Length x Width x Height: 635x20x3mm

Material: AlMgSi0,5F22

Weights

10x 100g

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase

120V, 60Hz, 1 phase

Dimensions and Weight

Length x Width x Height: 720x480x180mm (storage system)

Weight: 14kg (total)

Mounting frame

Specification:

Frame for mounting of experiments in statics, strength of materials and dynamics

Sturdy sectional steel double frame, welded

Easy, exact mounting of all components by precision clamp fixings

Stable on laboratory desktops or workbenches

Frame supplied disassembled

Technical Data:

Mounting frame made of steel sections

Frame opening Width x Height: 1250x900mm

Section groove width: 40mm

Dimensions and Weight

Length x Width x Height: 1400x400x1130mm (assembled)

Length x Width x Height: 1400x400x200mm (without mountings)

Weight: 32kg

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