



TM160

## FREE VIBRATIONS TEST FRAME

A sturdy bench-top frame for use with the Free Vibrations experiment modules.



### KEY FEATURES

- Sturdy bench-mounting experiment frame – large enough for classroom demonstrations
- Rigid construction for good experiment results and long service life, yet light enough to move around the classroom
- Supplied with simple tools for quick and easy assembly
- Adjustable levelling feet – essential for good experiment results
- Multiple, easy-to-use fixings for simple and easy experiment setup
- Includes a storage tray and lid – for safe storage of any tools and smaller parts of your optional experiments



# FREE VIBRATIONS TEST FRAME

## DESCRIPTION

For use with TecEquipment's free vibrations experiments (TM161–TM167), the test frame fits on any standard desk or bench top.

Students, teachers or lecturers fit the parts of their free vibrations experiments to the test frame to study or demonstrate a free vibrations topic.

The test frame has two extruded alloy horizontal members each with slotted fixing points to all four sides. The two triangular sides each have adjustable levelling feet. A stable, level test frame is essential in vibration experiments to give repeatable and accurate results.

The sturdy construction is necessary for accurate results in vibration experiments, but this also gives the frame a long service life. Despite its sturdy construction, the frame is light enough for two people to move it around the classroom easily.

TecEquipment include a storage tray and lid with the test frame. This is useful to store tools and smaller parts of your optional experiments, helping prevent accidental loss or damage. The test frame also includes a hexagon tool and a spirit level for easy assembly and levelling.

## STANDARD FEATURES

- Supplied with comprehensive user guide
- Five-year warranty
- Manufactured in accordance with the latest European Union directives
- ISO9001 certified manufacturer



THE TEST FRAME (TM160) AND THE CENTRE OF PERCUSSION (TM163) EXPERIMENT MODULE

## OPTIONAL EXPERIMENT MODULES

- Simple and Compound Pendulums (TM161)
- Filar Pendulums (TM162)
- Centre of Percussion (TM163)
- Free Vibrations of a Mass-Spring System (TM164)
- Free Torsional Vibrations (TM165)
- Free Vibrations of a Cantilever (TM166)
- Free Vibrations of a Beam and Spring (TM167)

## OPERATING CONDITIONS

### OPERATING ENVIRONMENT:

Laboratory or classroom

### STORAGE TEMPERATURE RANGE:

-25°C to +55°C (when packed for transport)

### OPERATING TEMPERATURE RANGE:

+5°C to +40°C

### OPERATING RELATIVE HUMIDITY RANGE:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

## ESSENTIAL SERVICES

A level bench or desktop of at least 1100 mm wide x 500 mm front to back.

## SPECIFICATIONS

TecEquipment is committed to a programme of continuous improvement; hence we reserve the right to alter the design and product specification without prior notice.

### ASSEMBLED SIZE AND WEIGHT:

Approximately 710 mm high (adjustable +/- 10 mm) x 1060 mm wide x 480 front to back and 18 kg

### STORAGE TRAY AND LID SIZE AND WEIGHT:

315 mm wide x 430 mm front to back x 80 mm high and 1 kg

### APPROXIMATE PACKED VOLUME AND WEIGHT:

0.2 m<sup>3</sup> and 25 kg

### TOOLS INCLUDED:

- Hexagon tool
- Spirit level