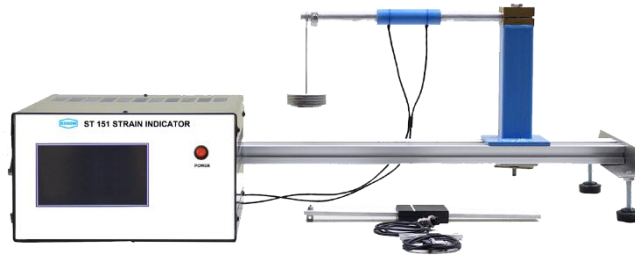


STRUCTURAL MODELS

Equipment for experiments on STRUCTURES consists of two main parts, accessories for specific experiment and a frame for attachment of the accessories. Many accessories common for various experiment.

ST 343 STRAIN GAUGES



GENERAL DESCRIPTION:

The apparatus demonstrates the use of electrical resistance strain gauge in measuring strain of material under bending, torsion or combined bending and torsion stresses. It is to be used with ST305 Universal Base Frame (separately supplied).

Two specimens are used. The specimen is mounted horizontally on a support column at one end. A cantilever beam for bending load, a rod with torsion arm for bending and torsion load and a strip for tension load. Strain gauges are placed on to the specimens. Each gauge is wired to form a full bridge with temperature compensation and zero adjustment. Strain is indicated on the strain indicator.

Instruction manual is also included.

EXPERIMENT CAPABILITIES:

- Fundamentals of measuring with strain gauges
- Correlation between mechanical strain and electrical resistance in a strain gauge
- Calculation of the mechanical deformations under bending, torsion or combined bending and torsion

TECHNICAL DATA:

- Test beams with Strain Gauge : Aluminum beam for bending test
- ST 113 Built-in/knife edge support : 1
- ST 151 Strain indicator : 1
- Load hanger : 1
- Weights : 1 lot.
- Power supply : 220 V, 1 Ph, 50Hz. or as required

OPTIONAL EQUIPMENT:

- ST343S Learning Software for data calculation and analysis by manual data entry from analog measuring instruments
- Aluminum specimen with loading device for tension test using modified support.
- Other optional equipment, please contact manufacturer (essom@essom.com)

Net (unassembled) Shipping Dimensions WxLxH : 70 x 90 x 20 cm
Net Weight : Approx. 20 kg