



TRUSS ANALYSIS

RS 041

Description:

Truss is one of the main engineering structures. Each truss consists of straight members which are connected in the joints. In general, truss members are thin, so they can laterally bear only small loads. Thus, all the loads are to be applied on the joints, not on the members themselves. The resultant of forces exerted on each end of a part will be one single force and no coupling is applied on it. This apparatus consists of parts made of PVC which are pinned together, and their length change can be measured by strain gauges.

Specifications:

- Truss set with parts made of PVC
- Strain gauges
- Loading using weights and weight hanger
- Node disk
- Carbon steel structure
- Suitable mechanical or electronic data acquisition system
- Installation and training video included
- Instructions manual included
- 10-year warranty

Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Investigating the concepts of stress and strain, and demonstrating how to measure them
2. Investigating the fundamental laws of statics in structures
3. Calculating the length change in truss members

Required For Operation:

- 220V Single Phase Electricity
- Desirable Temperature (°C): 10-30
- Relative Humidity: 15% - 80%
- Computer system to display data (if data logger is used)



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Dimensions (L*W*H) mm: 1400 x 350 x 1200

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