STR1A

DIGITAL FORCE DISPLAY

A compact instrument unit for use with the Structures range, this display shows the forces from up to four force sensors on the Structures experiments.

KEY FEATURES

- Works with many experiments from TecQuipment’s Structures range
- Fits onto the Structures Test Frame (STR1) to give a tidy work area
- Real-time display of each of up to four forces
- Can connect to TecQuipment’s Automatic Data Acquisition Unit (STR2000) to automatically measure all four forces at the same time

KEY SPECIFICATIONS

- Ranges 0.0 to 20.0 N (0.1 N resolution) and 0 to 500 N (1 N resolution)
- Liquid crystal display
**DESCRIPTION**

The Digital Force Display fixes to a Structures Test Frame (STR1, available separately). This keeps the experiments tidy and saves space around the work area. The display measures up to four forces from sensors on many of the experiments in the TecQuipment Structures range.

A four-way selector switch selects the displayed force. The display automatically adjusts its range to the force. Includes an output to the Automatic Data Acquisition Unit (STR2000, available separately). When used with the STR2000, the Digital Force Display outputs all four force signals at the same time to the Structures Software.

**STANDARD FEATURES**

- Supplied with installation leaflet
- Five-year warranty
- Made in accordance with the latest European Union directives
- ISO9001 certified manufacturer

**ANCILLARY FOR:**

- Bending Moments in a Beam (STR2)
- Shear Force in a Beam (STR3)
- Bending Stress in a Beam (STR5)
- Torsion of Circular Sections (STR6)
- Pin Jointed Frameworks (STR8)
- Three-Pinned Arch (STR9)
- Two-Pinned Arch (STR10)
- Fixed Arch (STR11)
- Euler Buckling of a Column (STR12)
- Continuous and Indeterminate Beams (STR13)
- Plastic Bending of Beams (STR15)
- Plastic Bending of Portals (STR16)
- Redundant Truss (STR17)
- Frame Deflections and Reactions (STR18)
- Simple Suspension Bridge (STR19)

**ESSENTIAL SERVICES**

**ELECTRICAL SUPPLY:**

100 VAC to 240 VAC, 1 A, 50/60 Hz, with earth

**OPERATING CONDITIONS**

**OPERATING ENVIRONMENT:**

Laboratory

**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

**SPECIFICATIONS**

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

**NETT DIMENSIONS AND WEIGHT:**

Nett 150 x 140 x 80 mm, 1 kg

**PACKED DIMENSIONS AND WEIGHT:**

Approximately 0.016 m³, 2 kg

**RANGES (AUTOMATICALLY SELECTED):**

0.0 to 20.0 N (0.1 N resolution)
0 to 500 N (1 N resolution)

**DISPLAY:**

Liquid crystal