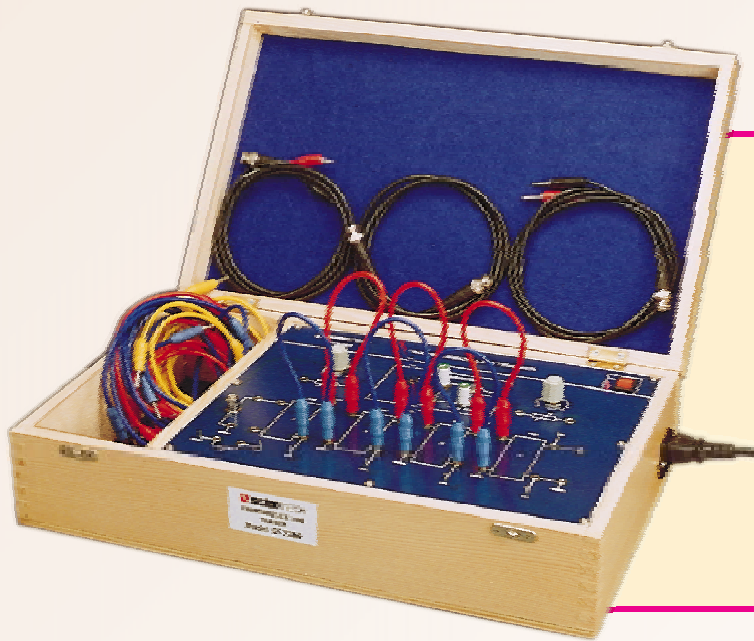


# Transmission Line Trainer ST2266



- 100 meters coaxial line.
- Matched - Short - Open line measurement.
- Onboard test generators and impedance matching resistances.
- Built in DC power supply.
- Input-output and test points provided.
- Functional blocks indicated on mimic.
- Student workbook and Operating manual contains transmission line theory and experiments.
- Easy to operate and student friendly.

In the telecommunication field transmission lines are used to convey the signals from one point to another. The line properties become very important specially in multi channel systems. **Sciencetech Transmission line trainer ST2266** is a unique design for experimenting various properties of the line. The trainer provides basic concept of coaxial line and include devices and accessories to conduct the experiment.

### Areas of Experimentation :

- Measurement with 1) Matched 2) Short 3) Open end of the line.
- Measurement of line properties.
- Measurement of line attenuation.
- Frequency characteristics of line.
- Input impedance of the line.
- Measurement of stationary waves.
- Phase shift along the line.
- Fault localization within the line.
- Line in pulsed condition.

### Technical Specifications :

**Transmission Line :** Coaxial cable 100m (25m x 4)  
**Impedance Matching Resistances :** 0-100 Ohms, 2 Nos.  
**Test Generators :** 1) Sinewave 4KHz-4MHz.  
 2) Square wave 10 KHz.  
**Interconnections :** 4 mm. banana sockets.  
**Test Points :** 10  
**Dimensions :** W 450 x H 113 x D 280 mm.  
**Power Supply :** 230V  $\pm$ 10%, 50Hz.  
**Weight :** 5.5 kg. approx.  
**Accessories Included :** Mainscord, Set of patch cords, Manuals, BNC-BNC Cable, BNC-Banana Cables.

### Sciencetech Technologies Pvt. Ltd.

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#### Other Products & Trainers :

- ★ Antenna Trainer.
- ★ Digital Communication Trainers.
- ★ Analog Communication Trainers.
- ★ Fiber Optic Trainers.
- ★ Laser Fiber Optic Trainer.
- ★ A/D and D/A Converter Trainers.
- ★ Optical Power Meter.
- ★ PC based OTDR.
- ★ Fiber Optic Connectorization kits.



... the best learning tools !