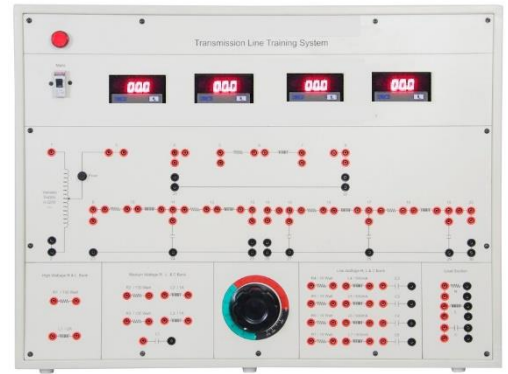


# Transmission Line Training System

## Introduction

Transmission Line is the key learning concept for Electrical Engineers. Transmission Line Training System is exclusively designed to deliver the learning aspects of the electrical transmission line. Digital display is provided for easy measurement of Voltage, Current, Power, Power Factor, etc.

Students can perform various experiments like short, medium and long transmission line and their behavior. Also one of the important experiments which can be performed with this training system is Ferranti Effect.



## Product Features

- Single phase multifunction meter for measuring V, I, PF, F, W.
- Simultaneous display of sending and receiving parameters
- Inbuilt Single Phase Variac to regulate supply
- Equipped with fixed R, L & C Load
- Facility to configure Short, Medium & Long Transmission Line using multiple value of R, L & C
- Diagrammatic representation for the ease of connections
- Front board consist of MS Material with power coating / epoxy paint to avoid any rust
- Separate auxiliary supply to actuate digital measuring devices
- Specially designed BS10 Terminals and patch cords for electrical safety
- Earthing screw provided at the back side of the control set-up
- Product should be provided with protection fuses, colored patch cords, single phase cords, User's manual having theory operating procedure with connecting diagram, FAQ, Glossary, etc

## Technical Specifications

**Mains Supply** : 230V  $\pm$ 10%, 50Hz

### Single Phase Variac

- Input : 230V
- Output : 0-270V, 2A

### Fixed Load

- R, L, C : 1No each

### Digital Measuring Devices

- Single Phase Multifunction Meter : 2Nos
- Display Parameter : V, I, PF, F, W.

## Experiments Can be performed:

- To study Short Circuit, Medium, Long Transmission Line
- Determine the ABCD, H, Z and Image parameters of Short Transmission Line
- Determine the ABCD, H, Z and Image parameters of Medium Transmission Line For T network and For pi network
- Determine the ABCD, H, Z and Image parameters for Long Transmission Line
- Measure the receiving end voltage of each line under no load or lightly load condition to understand Ferranti effect
- Understand the performance of transmission line under different loads

## Supporting Accessories supplied with Product

- Patch Cords of different color scheme, Single Phase Mains Cord, Extra Glass Fuses, Operating Manual (softcopy)

**\*\*Please feel free to share your queries or requirements by filling your details in ask query section or request a Quote section on the website, we will be happy to cater your requirement.**