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Product Name :
Transmission Line Simulator

Product Code :
LBNY-0005-15900010



Description :

The console is divided into two control panels, each with detailed mimic diagrams. The upper panel has a single phase transmission line equivalent circuit, and the lower panel a three-phase transmission line. The lines may be loaded by the resistive, capacitive and inductive loads included. The Transmission Line Simulator investigates single-phase and three-phase transmission lines. The effects can be monitored by instruments at the send and receive ends of the transmission lines. The single-phase transmission line includes a set of inductive impedances connected in series. The configurable simulated transmission lines allow realistic studies of short, medium and long-distance transmission lines under variable load and power factor conditions, as well as with inserted faults. Tapping points allow the user to:

Change the length of the simulated line

The three-phase transmission line is in six sections represented in per-unit values.

Monitor the voltage, current and power at any point along the line.

Set up Pi or Tee methods of loss profiling using different values of capacitance and

Facilities include:

A fault application switch and earth fault resistors allow studies of earth fault currents and the operation of relays of varying sensitivity.

Operating under variable balanced or unbalanced RLC loads

Provision to vary the length parameters

Selectable neutral

For protection tests, current transformers in the test circuits connect to the protection relay fitted to the control panel.

Technical Specification :

Transmission Line Simulator



Laboratory Instrument India