



Under Voltage & Over Voltage Relay Testing System

Nvis 7093



Nvis 7093 Under Voltage & Over Voltage Relay Testing System is intended for advanced practical training in protective devices connected with transmission lines, cables and network sections in power systems lab. A Relay is an electrically operated switch which uses an electromagnet to operate a switching mechanism mechanically.

Relays protect the power distribution equipment against continuing voltage sags that are detrimental to motors, ballasts, etc. Nvis 7093 provides theoretical and practical experience to students by controlling, monitoring, and analyzing individual relay settings and tripping characteristics. This product provides detailed representation of power transmission systems which helps the students to perform experiments with minimal supervision. It also includes built-in variable supply and fast response graphical LCD display which makes the measurement system very precise.

Features

- Alphanumeric 16 x 2 LCD with big font for better visibility
- Electromechanical Relay to understand internal mechanism and its working
- Inbuilt Single Phase Variac with isolation
- Tripping function settings
- Diagrammatic representation of Relay connection in transmission line
- Complies to all the safety standards
- Online product tutorial

Scope of Learning

- To study the operating performance of Over Voltage Relay with different plug settings
- To study the operating performance of Under Voltage Relay with different plug settings



Technical Specifications

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

Single Phase Variac

Input : 230V

Output : 0-270V

Current : 0-5A

Over Voltage Relay

Normal Voltage : 110V AC, 50Hz

Voltage Setting : 121V, 126.5V, 132V, 137.5V, 143V, 148.5V, 154V

Contacts : 2 N/O, 1 N/C

Under Voltage Relay

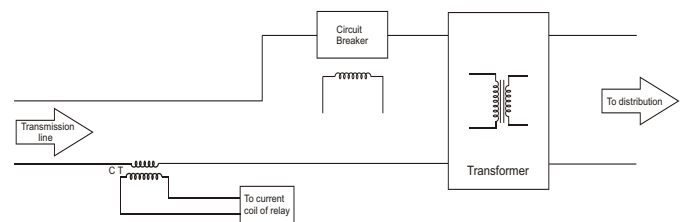
Normal Voltage : 110V AC, 50Hz

Voltage Setting : 44V, 51.3V, 58.6V, 65.9V, 73.2V, 80.5V, 88V

Contacts : 1N/O, 2N/C

Dimensions (mm) : W 830 x D 350 x H 645

Weight : 48kg (approximate)



For understanding the role of Relays in real time transmission system, a circuit of transmission line is provided from source to distribution with proper placing of all its components