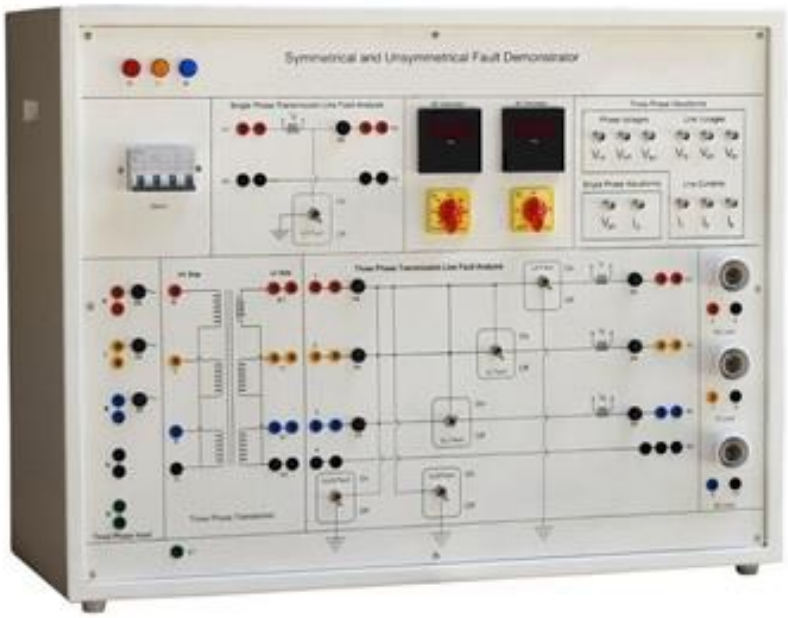
Symmetrical and Unsymmetrical fault training system



Introduction

Symmetrical and Unsymmetrical fault training system designed to explain the basic faults which can occur in a Transmission Line. Using Three Phase step down transformer, the training product reinforces the knowledge of all the basic faults in Transmission Line and corresponding sequence characteristics.
In addition to this, it also provides an opportunity to a student to use a wide variety of electrical components such as MCB, Selector Switch, Ammeter, Voltmeter, Three Phase Transformer, Indicating Lamps, and Fuse etc. This product along with the learning material represents almost all faults in Power System training course.

Product Features

- Fast response time
- High quality meters
- Test terminals provided to analyze the waveforms
- Line Voltage and Phase Voltage selection facility
- Line Fault can be introduced with a Toggle switch
- 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 is provided along with protection fuses, colored patch cords, single phase cords, User's manual having theory operating procedure with connecting diagram, FAQ, Glossary, etc

Technical Specifications

- **Input Supply** **: 0- 415V AC ±10%, 50Hz**
- **Operating Voltage to conduct experiments** **: 30V**
- **Auxiliary Supply** **: 0-230V AC ±10%**

Three Phase Transformer

- **Rating** **: 1kVA**
- **Primary Voltage** **: 415V AC (Line Voltage)**
- **Secondary Voltage** **: 240V AC (Line Voltage)**

Potential Transformer

- **Primary Voltage** **: 240V AC**
- **Secondary Voltage** **: 18V AC**
- **Current** **: 500mA**

Current Transformer

- **Ratio** **: 1:1 and 1:2500**
- **Current** **: 5A and 20A**
- **Fault Current** **: 5A**

Digital Meters Used

- **AC Voltmeter** **: 500V**
- **AC Ammeter** **: 10A**
- **MCB** **: 10A**

Experiments Can be performed:

- Line to Ground (L-G) Fault analysis of a Single Phase Transmission Line
- Single Line to Ground Fault (L-G) analysis of a Three Phase Transmission Line
- Line to Line Fault (L-L) analysis of Three Phase Transmission Line
- Double Line to Ground Fault (L-L-G) analysis of Three Phase Transmission Line
- Symmetrical L-L-L Fault analysis of a Three Phase Transmission Line
- Symmetrical L-L-L-G Fault analysis of Three Phase Transmission Line

Supporting Accessories supplied with Product

- Patch Cords of different color scheme
- Single/Three 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.**

ANTEKNOLOGIES
Near Himshikha Public School
Distt. Pathankot, Punjab – 145001
Contact Number: 9910307503, 8725829339
Email: anteknologies@gmail.com