



# Single Phase Transformer Lab

Nvis 7004



**Nvis 7004 Single Phase Transformer Lab** is an elite training system for the Electrical laboratories. The product helps you to get fully acquainted with the basic concepts and functioning of a Single Phase Transformer.

The product is represented in such an easy way that each test can be studied differently in proper sequence. The Lab practically expertises you in exercises like Polarity, Turns Ratio, Transformation Ratio, Iron Loss, Copper Loss, Efficiency etc. The vast scope of learning makes the subject easily and completely understandable.

## Features

- Inbuilt Single Phase Variac
- Equipped with Supply Indication Lamp
- Facility to use Fixed and Variable Load
- Control board consist of high grade FRP material to provide utmost safety to the users
- Terminals provided to use the optional externally
- Designed by considering all the safety standards
- Diagrammatic representation for the ease of connections
- Flexibility to configure Step-up, Step-down and Isolation Transformer
- Exclusive and Compact Design

## Scope of Learning

- Study of Transformation Ratio in a Single Phase Transformer
- Study of Polarity Test in a Single Phase Transformer
- Study of Open Circuit Test in a Single Phase Transformer
- Study of Short Circuit Test in a Single Phase Transformer
- Study of Load Test and correspondingly determine the Efficiency and Voltage Regulation in a Single Phase Transformer

## Technical Specifications

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

### Single Phase Transformer

Rating : 1kVA  
Primary Voltage : 0-125V, 0-125V  
Secondary Voltage : 0-125V, 0-125V  
Rated Current : 4A

### Single Phase Auto Transformer

Primary Voltage : 230V  
Secondary Voltage : 0-270V  
Rated Current : 5A

### Digital Meters Used

AC Voltmeter : 450V (2nos.)  
AC Ammeter : 5A (2nos.)  
Wattmeter : 1500W

**MCB (SP)** : 6A

### Optional

Resistive Load "Nvis 726"

Designed & Manufactured in India by

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