



# 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
- Product Tutorial (CD)

## 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 and Manufactured in India by -

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Nvis 7037 Three Phase Transformer Lab is an adaptable training system for the Electrical laboratories. The product helps understand basic concepts and functioning of a Three Phase Transformer. The product is represented in an easy way so that each test can be studied differently in proper sequence. Three Phase configurations such as Star-Star, Star-Delta, Delta-Star and Delta-Delta, Measurement of different losses and consequently determine efficiency and voltage regulation at any predetermined load etc.

### Features

- Stand alone operation
- Graphical LCD display for high resolution
- Flexibility to use in star and delta configuration
- Equipped with Supply Indication Lamps
- Facility to display entire parameter in single shot
- Designed by Considering All the Safety Standards
- Diagrammatic Representation for the Ease of Connections
- Online Product Tutorial

### Scope of Learning

Study of:

- Three Phase Configurations
- Open Circuit Test in a Three Phase Transformer
- Short Circuit Test in a Three Phase Transformer
- Load Test and correspondingly determine the Efficiency and Voltage Regulation in a Three Phase Transformer

### Technical Specifications

Mains Supply	: 415V $\pm$ 10%, 50Hz
Transformer Specifications	
Type	: Three Phase
Power Rating	: 1kVA
Primary Voltage	: 415V
Secondary Voltage	: 230V
Rated Current	: 4A
Graphical LCD display	: 240 x 125 Pixel
Dimensions (mm)	: W 600 x D 450 x H 600
Weight	: 33kg (approximate)

Optional :

- Three Phase Variac, 10A
- Three Phase Resistive Load