



**Nvis 7011 Sumpner's Test of Single Phase Transformer** is a very exclusive and important product designed for students of Electrical Engineering to explain the basic concepts of Sumpner's test. With this trainer, students can learn about the significance of conduction of the heat run test with two single phase transformers and correspondingly can determine the efficiency and voltage regulation. Additionally one can also learn the phenomenon of polarity.

The product helps the students to get fully acquainted with the basic concepts and functioning of the tests conducted on a single phase transformers. The product is represented in such an easy way that each test can be studied in proper sequence.

### Features

- Two Identical Single Phase Transformer
- Inbuilt Single Phase Variac
- Microcontroller based LCD to display variation in temperature
- Equipped with supply indication lamps
- Designed by considering all the safety standards
- Diagrammatic representation for the ease of connections
- Exclusive and Compact Design
- Online Product Tutorial

### Scope of Learning

- Study of Polarity Test with Two Single Phase Transformers
- Study of Sumpner's Test
  - A) Open Circuit Test
  - B) Short Circuit Test
  - C) Determination of the Efficiency and Voltage regulation of Two Single Phase Transformers

### Technical Specifications

**Mains Supply** : Single Phase, 230V±10%, 50Hz

#### Single Phase Transformers (2 nos.)

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

#### Digital Meters Used

AC Voltmeter : 450V (2 nos)  
 AC Ammeter : 5A & 10A (1 each)  
 Wattmeter : 1500W (2 nos)

#### Single Phase Auto Transformer

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

**MCB (SP)** : 10A