

46598 Understanding Calibration of Energy Meter is designed to deliver the practical knowledge of measurement of electricity consumption in real world. Today electricity is a vital element for human society. The rapid growth in electric appliance usage has contributed to an explosive growth in electrification around the world. To use electricity better, it is required to have a deep knowledge of Electricity measurements. 46598 provides indepth knowledge of Energy meter measurements and its calibration using Voltmeter, Ammeter and Watt meter. It has two displays, one is Standard meter and another is Energy meter. The onboard LCD display works as Standard meter for calibration of Energy meter and display value of Voltage, Current and Watt. The Energy meter display provides energy consumption details. The facility to connect external Watt meter or Voltmeter and Ammeter is also provided.



Features

- Single phase kWh Energy meter
- Inbuilt Voltmeter, Ammeter, Watt meter as Standard meter for calibration of Energy meter
- Big font LCD (16 x 2) for use as Standard meter/Energy meter calibration
- Separate Seven Segment Display as Energy meter
- Digital Calibration/ Operation using Keypad
- Sockets are provided to Connect External Voltmeter, Ammeter and Watt meter for Calibration
- Default and User Calibration modes are provided to avoid errors during Operation
- 5 LED Operation Indicators
- Learning material CD
- 2 Year Warranty

Scope of Learning

- Study the connection of Voltmeter, Ammeter & Watt meter for Power measurement of load in Transmission line
- Study the connection of Energy meter in Transmission line
- Measurement of Energy in kWh
- Calibration of Energy meter using inbuilt Watt meter
- Calibration of Energy meter using inbuilt Voltmeter & Ammeter
- Calibration of Energy meter using Analog Watt meter
- Calibration of Energy meter using Analog Voltmeter & Ammeter
- Experiments on effect of wrong Calibration on Energy meter

Technical Specifications

Auxiliary Power Supply : 90 - 270V \pm 10%, 50Hz
Standard meter
Voltmeter Minimum/Maximum : 10/300V
Ammeter Minimum/Maximum : 0.1/5A
Watt meter Minimum/Maximum : 10/1500W
Energy meter Display Resolution : 0.001kWh
Frequency : 50Hz
Fuse : 250mA (2 Nos.)
5A (4 Nos.)
Dimension (mm) : W 350 x D 280 x H 55

Option-I

7025B Watt Meter, Voltmeter and Ammeter Module

Option-II

AC/DC Load



Note: Specifications are subject to change.

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