



Three Phase Smart Energy Meter Training System

Nvis 7025E



New

* Image is for illustrative purpose and subject to change

Nvis 7025E Three Phase Smart Energy Meter Training System is designed to deliver the practical knowledge of measurement of electricity consumption in a real world with smart technology. A Smart meter is an electronic device that record information such as consumption of three phase electric energy, voltage, current, power factor, frequency, etc. Smart meter system helps to reduce energy wastage, improves communication between consumers and power supply companies.

Nvis 7025E offers a platform for remote monitoring of appliances, keep track of their energy usage and give alerts when faults occur due to any abnormal condition. There is graphical LCD to measure all the three phase parameters in a single frame. Also a dashboard software is provided for data logging. User can simulate different faults in energy meter and observe its consequences and get an opportunity to rectify these faults with practical approach.

Features

- Compact and rugged design.
- Full smart functionality.
- Remote monitoring of necessary parameters through Wi-Fi.
- Graphical LCD to measure all the three phase parameters.
- Tamper alerts provided.
- Facility to simulate various faults with alert indications.
- Diagrammatic representation for the ease of connections.



Scope of Learning

- Measurement of 3 phase electrical parameters using system circuitry.
- Measurement of 1 phase electrical parameter using system circuitry.
- Over voltage protection experiment.
- Under voltage protection experiment.
- Over current protection experiment.
- To study the faults indication in smart meters:
 - Device casing breached
 - Magnetic interference
 - Over voltage
 - Under voltage
 - Over current

Technical Specifications

Mains voltage : 415VAC \pm 10%, 50Hz

Smart energy meter

Connection : 3 Phase 4 wires

Rated current : 10A

Voltage variation : 415VAC \pm 10%, 50Hz \pm 5%

Communication topology : Wi - Fi

Measurement parameters : Voltage, current, power, power factor, energy, frequency, etc.

Optional

- Nvis 726 1KW resistive lamp load
- Single Phase Auto Transformer 10Amp
- Three Phase Auto Transformer 10Amp