



**Product Name:** 

Single Phase Energy Meter Trainer

**Product Code:** 

ALABS-A36-111



## **Description:**

## **Single Phase Energy Meter Trainer**

### Single phase energy meter

trainer describes a high accuracy, low cost, single-phase energy meter. The meter is designed for use in single-phase, 2-wire distribution systems. The design can be adapted to suit specific regional requirements, e.g., power is usually distributed for residential customers as single phase, 3-wire. This is a highly integrated system comprised of two ADC's, a reference circuit, and a fixed DSP function for the calculation of real power. A highly stable oscillator is integrated into the design to provide the necessary clock for the IC. This includes direct drive capability for LCD Display and a high frequency pulse output for Calibration.

Features:

- Complete training system for in depth study of single phase energy meter .
- Micro controller based LCD display.
- The display acts as a counter of units consumed as well as it shows the wattage of load and the time since the system has been On.
- Easy diagrammatic representation of Energy Meter.
- Test points are provided to measure the voltages at different points.
- Low Cost Trainer with high accuracy, demonstrating all the basic concepts of Single Phase Energy Measurement.
- Good quality, reliable sockets are provided at appropriate places on board for electric board supply and load connections.
- Designed with considering all safety standards.
- Provided with an extensive e-manual.

#### **Technical Specifications:**

• Line Voltage: 230V AC ±10%, 50 Hz

• Meter Constant : 1600 impulses/KWh (On LED)

• Display Counter: 100 impulses /KWh (On LCD)

• Maximum Current: 30 A

• Shunt: 350 mW

## Scope of Learning:

- Study the application of Single Phase Energy Meter for measurement of Power Consumed.
- Study of Single Phase Energy Meter using different test points and to understand its working



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