Order Code - 46515
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., in USA, 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.

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

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 μΩ

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.
IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in