



SCR ELEKTRONIKS

Leading Manufacturer of Industrial Electronic Products since 1975

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Portable Single Station

TESTING OF SINGLE PHASE ENERGY METER FOR ACCURACY TEST

GENERAL DESCRIPTION



SCR ELEKTRONIKS have developed an accuracy test unit for energy meters. This facilitates the Energy Meter Manufacturers to test and adjust the calibration accuracy within a band. This is Low Cost Solution for accuracy check with internal Reference Standard. The error calculation and reference standard meters are designed using latest microcontroller based technology. Essentially, it is a variable power source which is connected to both Reference Standard Meter and Meter Under Test. The pulses from Reference Standard Meter and Meter Under Test are fed to the Error Display Unit programmed for specific parameters. It compares the energy registered by Reference Standard Meter and Meter Under Test and calculates the error. The error is displayed on Digital display in percentage with resolution of 0.01.

Error Display Unit is Microcontroller based unit for calculating error in energy meters. It accepts pulses from Reference Standard Meter and from Meter Under Test and displays error. Accordingly, PASS or FAIL

LED glows to indicate whether the meter error is within allowable limits or not. Meter constants of both the meters and Error Limits are programmable and can be set through keys provided on front plate.

FEATURES / SPECIFICATIONS

1. Micro Controller based System
2. 6 digit LED Display to display error value & settings
3. Error Display for +/- 0.01 % to 99.99 %
4. Resolution for error : 0.01 %
5. Reference Standard Meter of class 1
6. Membrane keys for Settings
7. Meter Under Test (MUT) Pulse Rate programmable from 0.1 to 9.9 per watt-hour
8. Number of pulses for averaging programmable from 1 to 99
9. Error Limits programmable from +/- 0.01 to 99.99
10. Housed in 96mm X 96mm X 150mm Plastic Elegant Enclosure
11. Operates on 230 V +/- 10 % Supply