

CL1000

SINGLE PHASE KWH METER TEST BENCH



Application

The test bench is applied in the measurement centre of grid company, energy measurement department of power supply company and energy management utility, industrial enterprise and meter manufacturers.

Features

- Equipped with CL111 (single phase multi-function reference meter) and CL101 (program-controlled single phase
- power source which can be separately used and are convenient for testing.
- Operate automatically or manually.
- Automatically calculate the waiting time of starting and shunting experiments.
- High accuracy, 6-digit display, the energy relative errors are no more than $\pm 0.05\%$ ($\pm 0.1\%$) within the measuring range.
- High stability of power source which is up to 0.01%/100s and low distortion which is no more than 0.5%.
- Wide current measuring range which can be automatically switched.
- High resolution of voltage, current and power.
- Self-check and perfect protection function.
- Large LCD display and simple interface for operation display the failed meters.

Function

- Able to calibrate all kinds of electronic and inductive single phase kWh meter.
- Able to perform automatic measurement like shunting, basic errors, standard deviation, and etc.
- Able to test the error caused by voltage, current and harmonic affection.
- Able to check the same type meters with different constants.
- Able to print out all kinds of test reports with the standard forms.
- Able to test voltage, current, active/reactive/apparent power, phase, power factor, frequency, and etc.
- Able to display waveform of voltage and current, able to set 2-15 times harmonic of voltage and current, measure the waveform distortion and harmonic content, and display harmonic chart.
- Equipped with RS232 communication port.