

Energy Meter Calibration Test Bench

This energy meter test bench allows for accurate and efficient testing of multiple energy meters at once. It features a multi-position testing array, complete with measurement instruments and a user-friendly interface for data acquisition.



Overview

High-Precision Calibration System

This Single Phase Energy Meter Test Bench is a comprehensive solution designed for the accurate and efficient calibration of energy meters. Engineered for high-throughput environments, it supports testing up to 24 meters simultaneously, with customizable configurations available. The system ensures rigorous quality control through advanced auto-calibration and precision measurement capabilities, making it ideal for utility testing and industrial quality assurance.

Performance Metrics

Accuracy Class

0.1 Class • 0.2 Class

Key Performance Metrics

0.05 %

Output Stability

0.5 %

Waveform Distortion

Technical Specifications

Voltage Output	220 V
Current Output	100 A
Frequency Range	45Hz - 65Hz
Phase Range	360 degrees

Testing Capabilities

Supported Loads

- Capacitance
- Resistance
- Inductance (d 𠄎)

Testing Functions	Basic error test, No load test, Starting test, Calibration tolerance test
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Meter Capacity	24 units
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Power Requirements

Input Power	220V AC \pm 10%, 50Hz
Max Power Consumption	1500 VA