

POWERMASTER® 7 SERIES

True Three Phase Analyzing Reference Standard with Internal Three Phase Current and Voltage Source



R A D I A N
Research
Power and Energy Measurement Solutions

We Are The STANDARD

The innovative design of the PowerMaster® 7 Series allows utilities to fully test a metering installation with one piece of equipment. Customer load meter testing, phantom load meter testing, CT burden and ratio testing, CT de-magnetization, PT ratio testing, and transducer testing can all be performed with one solution. In addition, vector diagrams, voltage and current waveforms, and harmonics data up to the 100th harmonic can all be analyzed to complete a true wiring verification.

POWERMASTER[®] 7 SERIES

True 3 Phase Analyzing Reference Standard with Internal 3 Phase Current and Voltage Source

Direct Inputs

AC Current:

3 Inputs, 0 to 20A or 0 to 50A (model dependent)

1 uA Resolution

AC Voltage:

4 Inputs, 30 to 600V

1uV Resolution

Aux. Power: 1 Input, 100 to 530VAC

Probe Inputs

Two sets of three inputs

Resolution and range determined by probe

Current Source

Current Output:

0.1A to 20A (7302, 7332)

0.1A to 50A (7305, 7335)

Phase Adjustment: 0 to 360 degrees

Voltage Source

Voltage Output:

30V to 480V (7332, 7335)

30V to 600V (available upon request)

Phase Adjustment: 0 to 360 degrees

System Connectivity

Pulse Inputs: 3 (meter pulse input, standard input, aux input)

Pulse Outputs: 2 (standard output, sync output)

USB to PC Port: 1 (connectivity to PC)

USB Ports: 4 (peripheral devices and barcode reader)

Ethernet Port: 1 (high speed connectivity including internet)

RS232 Port: 1 (legacy devices)

SD Memory Port: 1 (removable SD Memory support)

Audio Port: 1 (microphone, headphones)

Warranty

5 years

*All information subject to change

Measurements

Energy:

Wh, VARh, VAh

+/- 0.02% Accuracy

Power: Watt, VAR, VA

+/- 0.02% Accuracy

Power Factor: -1.00 to 1.00

Harmonics: Up to 100th harmonic (user selectable)

Other

Display Resolution: 640 x 480,
full color transfective VGA

Display Size: 8.4 inches

Operating Temperature: -20°C to 50°C (-4°F to 122°F)

Storage Temperature: -30°C to 60°C (-22°F to 140°F)

Humidity: 0 to 95% non-condensing

Internal Battery: 14V NiMH rechargeable

Dimensions: 21 in x 17 in x 8.5 in

Weight: Not including cables

7300: 29.4lbs (13.3kg) 7302 35.6lbs (16.1kg)

7305: 38.4lbs (17.4kg) 7332 42.2lbs (19.1kg)

7335: 45.0lbs (20.4kg)

MODELS

7300

3 Phase Reference Standard

±0.02% Traceable to NIST

3 Phase Vectors and Waveforms

Harmonic Analysis up to the 100th

Customer Load Meter Testing

Demand Meter Testing

3 Phase Simultaneous CT Testing

3 Phase Simultaneous PT Testing

CT Demagnetization

Transducer Testing

Data Trending

Meter Site Manager Software

7302

With Integrated 3 Phase

20A Current Source

7305

With Integrated 3 Phase
50A Current Source

7332

With Integrated 3 Phase

20A Current Source **AND**

3 Phase 480V Voltage Source

7335

With Integrated 3 Phase

50A Current Source **AND**

3 Phase 480V Voltage Source



**A Product Family
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3852 Fortune Drive, Lafayette, Indiana
47905 USA | 765-449-5500

powermetrix.com

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