

POWERMASTER[®] 7 SERIES

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



POWERMETRIX

Powermetrix is pleased to introduce the most innovative field testing device in the electric utility industry. The PowerMaster[®] 7 Series is a top of the line field instrument with a true 3-phase analyzing reference standard and optional integrated current and voltage sources. With an accuracy of $\pm 0.02\%$ in the field, the 7 Series is more accurate than most lab standards, and 10 times more accurate than most meters. With the ability to measure all primary and secondary signals, the 7 Series can test all 3 phases for CT burden and ratio errors. It tests meters under customer load and/or generated load conditions. With many advanced features, the PowerMaster[®] 7 Series is revolutionizing field testing.

RAISING THE STANDARD

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)

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

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

7302

With Integrated 3 Phase
20A Current Source



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