POWERMASTER® 7 SERIES

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

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 ±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.

POWERMETRIX

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)
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 transflective 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

TEC TECHNOLOGY for Energy Corporation 865.966.5857 | www.powermetrix.com
10737 Lexington Drive | Knoxville, TN USA 37932 | Email: sales@powermetrix.com