

# i-meter<sup>®</sup> 45



## Features

- ◆ 120V to 347V L-N, 1, 2, or 3 phase circuit metering
- ◆ Wide frequency range 45-65Hz
- ◆ Uses self-shorting transformers
- ◆ Easy to mount and install
- ◆ Optional 80-character display
- ◆ Programmable on site with laptop computer
- ◆ Supports up to 45 Current Inputs
- ◆ Great when every circuit virtually supports a different application (Modern Data Centre)
- ◆ Programmed for single-phase or poly-phase applications
- ◆ Self-powered, eliminating the need for a second power source.
- ◆ Multiple functions options; voltage, current, real power, apparent power, power factor, frequency and total harmonic distortion

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## Product Summary

<b>Dimensions (Inches)</b>	16.5 H x 4.5 W x 2 D
<b>Dimensions (Millimeters)</b>	420 H x 115 W x 45 D
<b>Mounting Options</b>	Externally mount with loose CT's
<b># of Meters</b>	1 to 45
<b>Meter Elements (CTs)</b>	1 to 45
<b>Voltage</b>	Auto range 120-347VAC (L-N), -20% to +10% of rating
<b>Service type:</b>	1 $\emptyset$ 2W, 1 $\emptyset$ 3W, 2 $\emptyset$ 3W, 3 $\emptyset$ 4W wye, 3 $\emptyset$ 3W Delta*
<b>Current Transformers</b>	Secondary Max 80/100mA CTs, Self-Shorting Protection
<b>Instrument Transformers Interface</b>	Yes
<b>Memory</b>	Optional Modules up to 4 GB Memory
<b>Pulse Output</b>	Wh
<b>Communications</b>	ModBus RTU or TCP/IP, BACnet MSTP or TCP/IP and pulse output.
<b>Frequency</b>	45 to 65 Hz
<b>Accuracy Class</b>	0.5, (Meets ANSI C.12.20)
<b>Real Time Measurements</b>	V, I, kW, kVA, kVar, pf, Hz, Per phase V & I Total Harmonic Distortion (THD), Per phase V & I individual harmonic order up to 23rd
<b>Operating Temperature</b>	-10°C to +53°C
<b>Regulatory Compliance / Approvals</b>	Measurement Canada, cCSA <sub>US</sub> , cUL <sub>US</sub> , CTEP (CA)
<b>Patent</b>	U.S. Patent No. 8,049,488

\*600 VAC 3 phase 3 wire delta systems will require the addition of potential transformers.