

POWERSCOUT™ 3HD

Three (3) Channel Power Meter



The PowerScout PS3HD has been designed to be one of the safest and most flexible power meters on the market today. The meter can be used to monitor any Single or Three phase service panel or piece of equipment that meets a power supply range of 90 to 600 VAC. All PS3HD power meters include all four Serial/Ethernet BACnet and Modbus communication protocols. Any Standard and Revenue Grade mV output current transformers from Dent Instruments can be used to monitor currents from 0.25 to 4000 Amps. This reduces lead time and number of sku's required when compared to other power meters that must be factory configured. The CT's are sold separately as shown on the Standard and Revenue Grade CT's product data sheets. Additional features such as the Tri-Color PhaseChek™ display, DIN rail or Wall mount, positive and negative Modbus Registers for bi-directional metering, ViewPoint™

HD configuration software, Revenue Grade 0.2% accuracy, NIST Calibration Certificate, display's real time information, and is internally fused. The ViewPoint™ HD Configuration Software will allow for easy setup or reconfiguration while sitting at your desk or in the field through the use of a single USB Port and standard USB A-B cable. All setup table information can be saved to allow for easy programming of multiple meters with similar configurations. For more information regarding the PS3HD and any of its accessories or to discuss your application in further detail, please contact your ACI Sales representative.

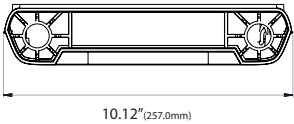
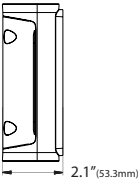
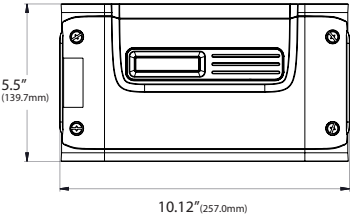
Applications: Energy and Demand Metering, Data Centers, Bi-Directional Metering, Load Surveys, LEED/Green Projects, Real Time Power Monitoring in Commercial, Retail and Industrial Environments

The PS3HD Power Meters are covered by ACI's Five (5) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, www.workaci.com.

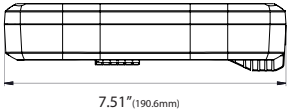
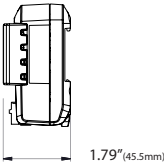
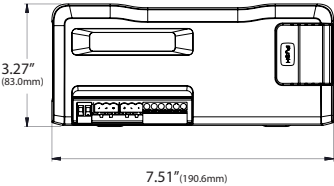
PRODUCT SPECIFICATIONS	
Service Type:	Single Phase, Split Phase, Three Phase - 4 Wire (Wye), Three Phase - 3 Wire (Delta)
Power:	From L1 Phase to L2 Phase 90 to 600 VAC RMS CAT III 50/60 Hz, 500 mA AC maximum
AC Protection:	0.5A Fuse 200kA interrupt capacity
Voltage Channels:	80 to 346 Volts AC Line to Neutral, 600 VAC Line to Line, Cat. III
Current Channels:	12 Channels, 0.525 VAC max, 333 mV CTs, 0 to 4000 Amps dependent on CTs
Maximum Current Input:	150% of Current transducer rating (mV CTs) to maintain accuracy Measure up to 4000 Amps (Rocoil™ CTs)
Measurement Type:	True RMS using High Speed Digital Signal Processing (DSP) with continuous sampling
Line Frequency:	50/60 Hz
Waveform Sampling:	1.8 kHz
Parameter Update Rate:	1 second
Measurements:	Volts, Amps, kW, kVAR, kVA, aPF, dPF, kW Demand, kVA Demand, Import (Received) kWh, Export (Delivered) kWh, Net kWh, Import (Received) kVAh, Export (Delivered) kVAh, Net kVAh, Import (Received) kVARh, Export (Delivered) kVARh, Net kVARh, THD, Theta, Frequency, All parameters for each phase & system total
Accuracy:	0.2% ANSI C12.20-2010 Class 0.2
Resolution:	32-bit Floating Point
Display:	2 x 16 Character Display with Tri-Color Backlight
Hardware:	RS-485 Serial and Ethernet
Supported Protocols:	Modbus RTU, BACnet MS/TP, Modbus TCP or BACnet IP
Maximum Distance:	1200 meters (3,937 Feet) with data range of 100K bits/second or less
Supported Baud Rates:	Modbus: 9600, 19200, 38400, 57600, 76800, 115200 Baud BACnet: 9600, 19200, 38400, 76800
Data Bits Parity Stop Bit	8 None, Even, One 2, 1
Data Formats:	Modbus RTU, BACnet MS/TP, Modbus TCP or BACnet IP
Operating Temperature Range:	-4 to 140°F (-20 to 60°C)
Operating Storage Humidity Range:	5 to 95%, non-condensing
Enclosure Material Flammability	ABS Plastic UL 94V-0
Wiring Connections	De-pluggable, Screw/Push Lock Terminal Blocks (Polarity Sensitive - PhaseChek™ Indication)
Wire Size:	12-28 AWG 600 VAC, Voltage connection must be #14 AWG or larger & 600 VAC rated
Mounting:	PWall mount enclosure or TS35/7.5 DIN Rail
ViewPoint™ HD Software System:	Windows® 10, Windows® 8, Windows® 7 (Included with Purchase of Meter)
Communications:	10/100 Ethernet and USB 2.0
Security:	2 Password Levels
Agency Approvals:	UL Listed: Conforms to UL Std 61010-1, 3rd Edition & IEC 61010-2-030 1st Edition CE: LVD (EN61010-1), EMC (EN61326-1), RoHS 2 (EN50581) ANSI C12.20 Class 0.2: NIST Traceable Calibration (3rd party certification pending)
Product Weight:	See Ordering Grid on Back (CT's not Included)
Product Dimensions (L x W x H):	DIN Rail Version: 7.51" L (19.08cm) 3.24" W (8.23 cm) x 1.48" H (3.76cm) Wall Mount Version: 10.12" L (25.70 cm) x 5.50" W (14.00 cm) x 2.12" H (5.37 cm)

DIMENSIONAL DRAWING

Wall Mount



DIN Rail Mount



Front View

Side View

Top View

STANDARD ORDERING

Model # Example: PS3HD-R-D-N -OR- 147127

				Modbus*		BACnet*	
Model #	Item #	Description	Product Weight	RTU	TCP/IP	MS/TP	IP
PS3HD-R-D-N	147127	Powerscout 3HD DIN Rail Mount Enclosure with Display	0.81 lbs. (0.36 kg)	•	•	•	•
PS3HD-C-D-N	147657	Powerscout 3HD Wall Mount Enclosure with Display	1.38 lbs. (0.64 kg)	•	•	•	•