



POWERSCOUT™

Networked Power Meters-Sub Meters

The PowerScout™ 3037 is an intuitive, networked power meter designed to monitor and provide consumption data. The PowerScout™ monitors voltage, current, power, energy, and many other electrical parameters on single and three phase circuit installations. Data updates occur once every second to ensure timely and accurate results. Convenient size and versatility make it the ideal device for monitoring and diagnosing consumption data in commercial, industrial, government, and retail environments. The PowerScout™ features field-selectable Modbus or BACnet® protocols, digital pulse outputs, interchangeable split-core or RoCoil current transformers, and direct USB setup. Connect via serial RS-485 or optional Ethernet and use the optional back-lit display to verify setup and check real time values. The PowerScout makes over 50 total electrical measurements, including energy and demand.





SPECIFICATIONS

Service Type	Single phase, 3 phase-4 wire (Wye), 3 phase-3 wire (Delta)
Measurements	Volts, Amps, kW, kWh, kVAR, kVARh, kVA, kVAh, aPF, dPF
Power	L1 Phase to L2 Phase, 80-600 VAC CAT III 50/60Hz, 90 mA Max, Non-user replaceable 0.5 Amp internal fuse protection
Power Output	Unregulated 5 VDC output, 140 mA Max, resetting fuse
Pulse Output	Open collector, 5 mA max current, 30V max open voltage
Voltage Channels	80-346 VAC line-to-neutral, 600V Line-to-Line, CATIII
Current Channels	3 channels, 0.525 VAC max, 333 mV CTs, 0-4,000A
Waveform Sampling	12 kHz
Parameter Update Rate	0.5 sec
Accuracy	0.2% (<0.1% typical) ANSI C12.20-2010 Class 0.2
Max. Current Input	158% of current transducer rating (mV CTs) to maintain accuracy. Measure up to 4000A with RoCoil™ CTs
Environmental Temp, RH	Temp: -7 to 60°C (-20 to 140°F), RH: 5% to 95% non-condensing
Resolution	0.01A, 0.1V, 0.01 Watt, 0.01 VAR, 0.01 VA, 0.01 Power Factor depending on Scalar Setting
Safety Approvals	4RH8 (file number: E186827) conforms to UL STD 61010-1; certified to CSA STD C22.2 No. 61010-1
Product Dimensions	(L) 9.5" x (W) 3.3" x (H) 1.6"

COMMUNICATIONS

Direct	User selectable Modbus/BACnet Master Slave Token Passing protocol (MS/TP) or BACnet IP/Modbus TCP over ethernet
Max Distance	1200 meters with data range of 100K bits/second or less
Baud Rate	9600 (Modbus default), 19200, 38400, 57600, 76800 (BACnet default), 115200
Data Bits	8
Parity	None, Even, Odd
Stop Bit	2,1
Data Formats	Modbus or BACnet

VIEWPOINT SOFTWARE

Operating System	Windows® 7, 8, Vista, XP
Communications	RS-485 & USB standard. Ethernet available. One USB Port required on PC

MODBUS REGISTER/BACNET OBJECT DESCRIPTIONS (PARTIAL LIST)

System True Energy +/- (kWh)	Individual Phase to Phase Voltages
Instantaneous Total True Power +/- (kW)	Individual Phases True Energy +/- (kWh)
Peak Demand (Adj. Window) (kW)	Individual Phases True Power +/- (kW)
Max. Instantaneous Power +/- (kW)	Individual Phases Reactive Energy +/- (kVARh)
Min. Instantaneous Power +/- (kW)	Individual Phases Reactive Power +/- (kVAR)
System Reactive Energy +/- (kVARh)	Individual Phases Apparent Energy (kVAh)
System Apparent Energy (kVAh)	Individual Phases Apparent Power (kVA)
System Apparent Power (kVA)	Individual Phases Apparent Power Factor (aPF)
System Displacement Power Factor (dPF)	Individual Phases Displacement Power Factor (dPF)
System Apparent Power Factor (aPF)	Individual Phases Line to Neutral Voltages (Volts)
Average Line to Line Voltage (Volts)	Individual Phases Line to Line Voltages (Volts)
Average Line to Neutral Voltage (Volts)	PS3037: Net system true energy (kWh)

ORDERING

Please select one PowerScout™ (A).

A PowerScout™

- PS3037-S-N (Serial Communications Only (BACnet MS/TP or Modbus RTU), no Display)
- PS3037-S-D (Serial Communications Only (BACnet MS/TP or Modbus RTU), with Display)
- PS3037-E-N (Ethernet (BACnet IP or Modbus TCP), Serial Communications (BACnet MS/TP or Modbus RTU), no Display)
- PS3037-E-D (Ethernet (BACnet IP or Modbus TCP), Serial Communications (BACnet MS/TP or Modbus RTU), with Display)

BUILD PART NUMBER

After completing (A) from the above table, fill in the Part Number Table below. An example part number is offered. All meters include the viewpoint software to configure the PowerScout™ Meter and to monitor real time values to ensure meter is configured properly. A type AB USB cable may be used between a PC and a PS3037 meter and is the preferred method for setting up a PS3037 with Modbus protocols. The USB cable will also power the meter when connected to a PC. USB cables are not included and must be purchased separately.

A

EXAMPLE: PS3037-S-N

