POWERSCOUT™ 3037

NETWORKED SINGLE-POINT METER

REVENUE GRADE INSTRUMENTS FOR SUPERIOR ENERGY MEASUREMENT

3 channels

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CE

ADAPT TO ANY PROJECT

The PowerScout 3037 comes in four basic configurations depending on whether a display or Ethernet port are desired. Instead of having one specific meter for a single job, the PowerScout 3037 can adapt to nearly any project requirement.

All PowerScout 3037 models have a broadband power supply (80-600VAC) and can be paired with a variety of current transformers, including split cores that measure <1A and large RōCoils designed for measuring 4000A. In addition, communication protocols are field-selectable. Easily toggle between Modbus or BACnet using ViewPoint software.

REVENUE-GRADE PERFORMANCE

The PowerScout 3037 features revenue-grade ANSI C12.20-2010 qualified Class 0.2 performance. Paired with the appropriate DENT CTs, the PowerScout 3037 is ideal for high-accuracy applications like demand response or tenant submetering.

QUICK SETUP

Configuring the PowerScout 3037 for a new project is faster than ever before, thanks to the standard USB port. To configure, simply connect the meter to a PC using a USB cable, then use ViewPoint software to select CT type, communication protocol, and other parameters. The meter is powered by the USB port while connected to a PC. Have several meters that require the same configuration? Save your setup table in ViewPoint and use it over and over.

SIMPLE, QUICK INSTALLATION

The PowerScout 3037 is compact enough to facilitate in-panel mounting. Or, use the built-in DIN rail channel, which is compatible with TS35/7 rail for quick and easy mounting near the circuit panel.

PowerScout instruments are line-powered and do not require external power. Its power supply can accommodate service voltages ranging from 80-600V (phase-to-phase). DENT's patented* PhaseChek™ circuitry includes a 3 bi-color LED indicator display that confirms proper CT-to-phase placement and orientation.

*U.S. Patent and Trademark Office Patent No. 7,612,552

DENT INSTRUMENTS

WARRANTY 5 YEAR WARRANTY

APPLICATIONS

- Tenant Submetering
- Bi-directional Metering
- Data Centers
- Real-Time Power Monitoring in Commercial, Retail, and Industrial environments

FEATURES

- 3 channels: Single-point submeter monitors voltage, current, power, energy, and many other electrical parameters on single or three-phase systems
- Revenue grade. ANSI C12.20-2010 Class 0.2
- Lightweight and compact: Mount within an electrical panel.
- Positive and negative Modbus registers/ BACnet objects allow for the PowerScout to be used on bi-directional metering projects.
- Use with a full range of Split Core or RōCoil™ Rogowski-style CTs, including several revenue-grade options.
- Line-Powered: 80-600V Phase-to-Phase Power Supply
- Optional display shows real-time information about the meter configuration and metered data
- Communicate using either BACnet or Modbus protocol. The meter features one digital pulse output. Available as a Serial only or Ethernet + Serial device.
- Data updates occur every 0.5 seconds.
- Patented PhaseChek™ technology confirms proper CT orientation
- UL Listed and CE Mark

POWERSCOUT™ 3037 SPECIFICATIONS

TECHNICAL

SERVICE TYPE	Single Phase, Three Phase-Four Wire (WYE), Three Phase-Three Wire (Delta)
POWER	From L1 Phase to L2 Phase. 80-600VAC RMS CAT III 50/60Hz, 90mA AC Max
AC PROTECTION	.5A internal fuse protection
POWER OUT	Unregulated 5VDC output, 140 mA max
VOLTAGE CHANNELS	80-346 Volts AC Line-to-Neutral, 600V Line-to-Line, CAT III.
CURRENT CHANNELS	3 channels, 0.525 VAC max, 333 mV CTs, 0-4,000+ Amps depending on CT
MAXIMUM CURRENT INPUT	158% of current transducer rating (mV CTs) to maintain accuracy. Measure up to 4000A with RōCoil CTs
MEASUREMENT TYPE	True RMS using high-speed digital signal processing (DSP)
LINE FREQUENCY	50/60 Hz
WAVEFORM SAMPLING	12 kHz
PARAMETER UPDATE RATE	0.5 seconds
MEASUREMENTS	Volts, Amps, kW, kVAR, kVARh, kVA, kVAh, aPF, dPF. All parameters for each phase and system total
ACCURACY	0.2% ANSI C12.20-2010 Class 0.2
RESOLUTION	0.01 Amp, 0.1 Volt, 0.01 Watt, 0.01 VAR, 0.01 VA, 0.01 Power Factor depending on scalar setting
DISPLAY	Optional 2 x 16 character display which auto-cycles between screens; real-time values updated every second
PULSE OUTPUT	Open Collector, optically isolated, 5mA max current, 30V max open voltage

COMMUNICATIONS

HARDWARE	User selectable Modbus RTU or BACnet MS/TP RS-485 or Ethernet
MAX DISTANCE	1200 meters 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	8
PARITY	None, Even, Odd
STOP BIT	2, 1
DATA FORMATS	Modbus, BACnet MS/TP, Modbus TCP or BACnet IP

MECHANICAL

MOUNTING	Mounting tabs or TS35/7 DIN Rail
OPERATING TEMPERATURE	-20° to 60°C (-4° to 140°F)
HUMIDITY	5% to 95% non-condensing
ENCLOSURE	ABS Plastic, 94-V0 flammability rating
ENCLOSURE DIMENSIONS	(L) 24.2 cm x (W) 8.5 cm x (H) 4.0 cm (9.5” x 3.3” x 1.6”)
WEIGHT	340 g (12 ounces), exclusive of CTs

CERTIFICATIONS

UL LISTED	Conforms to UL Std 61010-1, 3rd Edition & IEC 61010-2-030 1st edition
CE	EN 61000-6-4: Class A
ANSI C12.20 CLASS 0.2	NIST Traceable Calibration

VIEWPOINT SOFTWARE

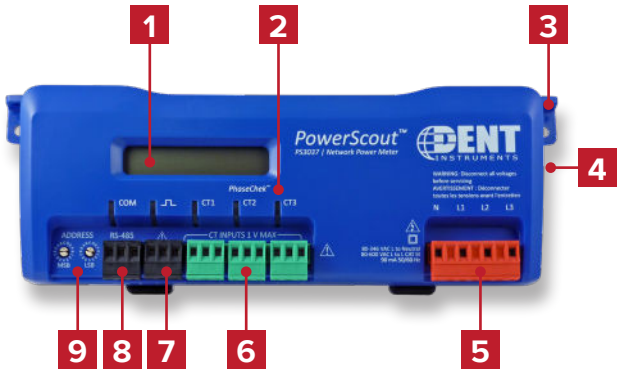
OPERATING SYSTEM	Windows® 10, Windows® 8, Windows® 7
COMMUNICATIONS	Ethernet or USB. One free USB port required on PC.

ORDERING PART NUMBERS

PS3037-S-N	POWERSCOUT 3037, SERIAL ONLY, NO DISPLAY
PS3037-S-D	POWERSCOUT 3037, SERIAL ONLY, WITH DISPLAY
PS3037-E-N	POWERSCOUT 3037, ETHERNET + SERIAL, NO DISPLAY
PS3037-E-D	POWERSCOUT 3037, ETHERNET + SERIAL, WITH DISPLAY

POWERSCOUT 3037 ANATOMY

1. Optional Display
2. PhaseChek LEDs
3. Mounting Tabs
4. DIN Rail Channel (not pictured)
5. Voltage Connection
6. CT Connections
7. Pulse Output
8. Serial RS-485
9. Modbus/ BACnet Address Switches
10. Standard USB
11. Optional Ethernet
12. Display Function Button



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