

# POWERSCOUT™ 3037

## NETWORKED SINGLE-POINT METER

REVENUE GRADE INSTRUMENTS FOR SUPERIOR ENERGY MEASUREMENT



3  
channels



### 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 RõCoil™ 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

### 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 RõCoils 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

# POWERSCOUT™ 3037 SPECIFICATIONS

## TECHNICAL

<b>SERVICE TYPE</b>	Single Phase, Three Phase-Four Wire (WYE), Three Phase-Three Wire (Delta)
<b>POWER</b>	From L1 Phase to L2 Phase. 80-600VAC RMS CAT III 50/60Hz, 90mA AC Max
<b>AC PROTECTION</b>	.5A internal fuse protection
<b>POWER OUT</b>	Unregulated 5VDC output, 140 mA max
<b>VOLTAGE CHANNELS</b>	80-346 Volts AC Line-to-Neutral, 600V Line-to-Line, CAT III.
<b>CURRENT CHANNELS</b>	3 channels, 0.525 VAC max, 333 mV CTs, 0-4,000+ Amps depending on CT
<b>MAXIMUM CURRENT INPUT</b>	158% of current transducer rating (mV CTs) to maintain accuracy. Measure up to 4000A with R6Coil CTs
<b>MEASUREMENT TYPE</b>	True RMS using high-speed digital signal processing (DSP)
<b>LINE FREQUENCY</b>	50/60 Hz
<b>WAVEFORM SAMPLING</b>	12 kHz
<b>PARAMETER UPDATE RATE</b>	0.5 seconds
<b>MEASUREMENTS</b>	Volts, Amps, kW, kVAR, kVARh, kVA, kVAh, aPF, dPF. All parameters for each phase and system total
<b>ACCURACY</b>	0.2% ANSI C12.20-2010 Class 0.2
<b>RESOLUTION</b>	0.01 Amp, 0.1 Volt, 0.01 Watt, 0.01 VAR, 0.01 VA, 0.01 Power Factor depending on scalar setting
<b>DISPLAY</b>	Optional 2 x 16 character display which auto-cycles between screens; real-time values updated every second
<b>PULSE OUTPUT</b>	Open Collector, optically isolated, 5mA max current, 30V max open voltage

## COMMUNICATIONS

<b>HARDWARE</b>	User selectable Modbus RTU or BACnet MS/TP RS-485 or Ethernet
<b>MAX DISTANCE</b>	1200 meters with Data Range of 100K bits/second or less
<b>SUPPORTED BAUD RATES</b>	Modbus: 9600, 19200, 38400, 57600, 76800, 115200 baud BACnet: 9600, 19200, 38400, 76800
<b>DATA BITS</b>	8
<b>PARITY</b>	None, Even, Odd
<b>STOP BIT</b>	2, 1
<b>DATA FORMATS</b>	Modbus, BACnet MS/TP, Modbus TCP or BACnet IP

## MECHANICAL

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

## CERTIFICATIONS

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

## VIEWPOINT SOFTWARE

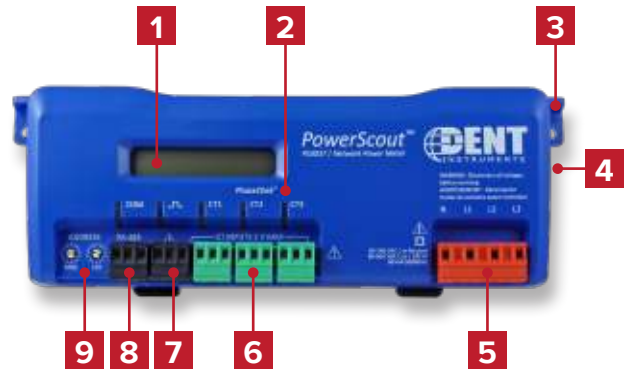
<b>OPERATING SYSTEM</b>	Windows® 10, Windows® 8, Windows® 7
<b>COMMUNICATIONS</b>	Ethernet or USB. One free USB port required on PC.

## ORDERING PART NUMBERS

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

## POWERSCOUT 3037 ANATOMY

- Optional Display
- PhaseChek LEDs
- Mounting Tabs
- DIN Rail Channel (not pictured)
- Voltage Connection
- CT Connections
- Pulse Output
- Serial RS-485
- Modbus/BACnet Address Switches
- Standard USB
- Optional Ethernet
- Display Function Button



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