

**FEATURES :**

- For single or 3-phase systems using 80-600V phase-to-phase (AC or DC) services when line powered or 0-600V (AC or DC) when externally powered.
- Measures up to four channels of energy metrics with currents ranging from 0 to 6,000 amps.
- Analog Inputs record analog data with configurable input ranges for voltage (0-15 VDC) or current loop (0 or 4-20 mA) transducers.
- Analog inputs are used for process or environmental correlation studies with power.
- User-selectable recording intervals as short as every 1 second.
- 16 MB non-volatile memory standard for months of recording time.
- Better than 1% accuracy (<0.2% typical).
- Fast USB connection and standard Ethernet port.
- ELITEpro XC may be configured with optional Bluetooth® wireless technology. Optional Wi-Fi interface allows for remote data collection over wireless networks. Check real-time values using a Wi-Fi-enabled laptop, tablet, or smartphone via a web browser.
- Simple yet powerful Windows-based ELOG™ software package for setup, data retrieval, and analysis.
- Easy data exporting to almost any analysis program.
- Easy to setup and installs in minutes. Patented PhaseChek™ LED indicators ensure correct CT orientation at installation.
- Rugged and compact—easily fits inside breaker panels and switch gear.

**ELITEPRO XC**  
portable recording power meter

**TECHNICAL**

<b>SERVICE TYPE</b>	Single Phase (two wire or three wire), Three Phase-Four Wire (WYE), Three Phase-Three Wire (Delta), DC Systems (Solar/Battery)
<b>VOLTAGE CHANNELS</b>	3 channels, CAT III, 0-600 VAC (line-to-line) or 600 VDC
<b>CURRENT CHANNELS</b>	4 channels, .67 VAC max, +/- 1 VDC. Ideal for 333 mV full scale CTs
<b>MAXIMUM CURRENT INPUT</b>	External transducer dependent. 200% of current transducer rating (mV CTs) Measure up to 6000A with RoCoil CTs.
<b>MEASUREMENT TYPE</b>	True RMS using high-speed digital signal processing (DSP)
<b>LINE FREQUENCY</b>	DC/50/60/400 Hz*
<b>WAVEFORM SAMPLING</b>	12 kHz
<b>CHANNEL SAMPLING RATE</b>	.125 seconds
<b>INTEGRATION PERIOD</b>	1, 3, 15, 30 seconds; 1, 2, 5, 10, 15, 20, and 30 minutes; 1 and 12 hours, 1 day
<b>ENERGY MEASUREMENTS</b>	Volts, Amps, Amp-Hrs (Ah), kW, kWh, kVAR, kVARh, kVA, kVAh, Displacement Power Factor (dPF). All parameters for each phase and for system total.
<b>ANALOG MEASUREMENTS</b>	0-10 Volts, 0 or 4-20 mA current loop. Non-isolated, external power for current loop. User scaling for sensor reporting in physical units.
<b>ACCURACY</b>	Better than 1% (<0.2% typical) for V, A, kW, kVAR, kVA, PF, Analog
<b>RESOLUTION</b>	0.01 Amp, 0.1 Volt, 1 Watt, 1 VAR, 1 VA, 0.01 PF, 0.01 ANA
<b>LED INDICATORS</b>	Tri-color (red, green, blue): 1 LED indicates communication (blue for wireless, Bluetooth® or Ethernet), 4 LEDs for correct phasing (PhaseChek ).

**POWER**

<b>LINE-POWER</b>	From L1 Phase to L2 Phase. 80-600V (AC or DC) CAT III DC/50/60/400 Hz, 125 mA, 5 W, or 10 VA max. Non-user replaceable .5 Amp internal fuse protection.
<b>POWER IN</b>	6-10 VDC, 500 mA
<b>POWER OUT</b>	6 VDC, 200 mA max











**COMMUNICATIONS**

<b>USB (STANDARD)</b>	USB standard (Type B). 1.8 M (6 ft) A-to-B USB Cable (included)
<b>ETHERNET (STANDARD)</b>	Standard RJ-45 Connector supports 10/100 MB Ethernet over Cat 5 or better. Configure for DHCP or Static IP.
<b>BLUETOOTH® WIRELESS TECHNOLOGY (OPTIONAL)</b>	Internal antenna with 10-100 ft range (typical). Requires Bluetooth® wireless technology adapter on Windows PC. Adapter must support the Serial Port Profile (SPP).
<b>WI-FI ADAPTER (OPTIONAL)</b>	Wi-Fi option available as two separate configurations: • Internal antenna: typical range 75-300 ft. • External 3 dbi antenna: typical range 150-300 ft.

**MECHANICAL**

<b>OPERATING TEMPERATURE</b>	-7 to + 60 °C (20 to 140 °F)
<b>OPERATING HUMIDITY</b>	5% to 95% non-condensing
<b>ENCLOSURE TYPE</b>	ABS plastic, 94-V0 flammability rating
<b>WEIGHT</b>	340 g (12 ounces)
<b>DIMENSIONS</b>	21.6 x 6.3 x 4.7 cm (8.5"x 2.5"x 1.9")

# AVAILABLE CURRENT TRANSFORMERS

	<b>MINI HINGED</b> HSC-020, -050	<b>MIDI HINGED</b> HMC-100, -200	<b>HIGH ACCURACY</b> SHS-0005, -0015	<b>SMALL SPLIT CORE</b> SCS-0050, -0100	<b>MED SPLIT CORE</b> SCM-0100, -0200, -0400, -0600
					
<b>KEY SPECIFICATIONS</b>					
<b>WINDOW SIZE</b>	1 cm (0.4")	2.5 cm (1.0")	1.0 cm (0.4")	1.9 cm (.75")	3.2 cm (1.25")
<b>OUTPUT SIGNAL</b>	333 mV at rated current	333 mV at rated current	333 mV at rated current	333 mV at rated current	333 mV at rated current
<b>USEFUL CURRENT RANGE</b>	0.25-40 Amps 0.25-80 Amps	1-200 Amps 1-300 Amps	0.05-7 Amps, 0.15-20 Amps	1-65, 2-130 Amps	5-130, 4-260, 8-520, 12-780 Amps
<b>ELECTRICAL SPECIFICATIONS</b>					
<b>NOMINAL RATING</b>	20, 50 Amps	100, 200 Amps	5, 15 Amps	50, 100 Amps	100, 200, 400, 600 Amps
<b>ACCURACY</b>	<0.5% at rated current	<1.0% at rated current	+/- 0.5% at rated current	+/- 1% at 10% to 130% of rated current	+/- 1% at 10% to 130% of rated current
<b>PHASE SHIFT</b>	<1.5° at rated current	<0.5° at rated current	<0.5° at rated current	<2° at rated current	<2° at rated current
<b>FREQUENCY RANGE</b>	50 Hz to 400 Hz	50 Hz to 400 Hz	10 Hz to 10 KHz	50 Hz to 400 Hz	50 Hz to 400 Hz
<b>DIELECTRIC STRENGTH</b>	3520 VAC for 1 minute	5200 VAC for 1 minute	5000V around the case 600V rated leads	5000V around the case 600V rated leads	5000V around the case 600V rated leads
<b>MECHANICAL SPECIFICATIONS</b>					
<b>DIMENSIONS</b>	2.6 x 2.9 x 4.2 cm (1.04 x 1.16" x 1.64")	4.7 x 4.7 x 7.0 cm (1.85 x 1.85 x 2.76")	6.4 x 2.5 x 5.1 cm (2.5 x 1.0 x 2.0")	5.08 x 5.34 x 1.55 cm (2.0 x 2.1 x 0.6")	8.26 x 8.6 x 2.54 cm (3.3 x 3.4 x 1.0")
<b>WEIGHT</b>	91 g (3.2 oz)	221 g (7.8 oz)	136 g (4.8 oz)	136 g (4.8 oz)	340 g (12 oz)
<b>POLARITY</b>	White lead is positive	White lead is positive	White lead is positive	White lead is positive	White lead is positive
<b>OUTPUT LEAD</b>	Leads 2.7 m (8 ft) twisted pair, 20 AWG	Leads 2.7 m (8 ft) twisted pair, 22 AWG	Leads 2.7 m (8 ft) twisted pair, 22 AWG	Leads 2.7 m (8 ft) twisted pair, 20 AWG	Leads 2.7 m (8 ft) twisted pair, 20 AWG
<b>OPERATING TEMPERATURE</b>	-15° to 60 °C (5 to 140 °F)	-15° to 60 °C (5 to 140 °F)	-20° to 55 °C (-4° to 131 °F)	-20° to 55 °C (-4° to 131 °F)	-20° to 55 °C (-4° to 131 °F)
<b>STORAGE TEMPERATURE</b>	Maximum 105 °C (220 °F)	Maximum 105 °C (220 °F)	Maximum 80 °C (176 °F)	Maximum 80 °C (176 °F)	Maximum 80 °C (176 °F)
<b>CASE PROTECTION</b>	White nylon, UL 94 V-0	White nylon, UL 94 V-0	Epoxy encapsulated housing ABS/PVS UL 94 V-0	Epoxy encapsulated housing ABS/PVS UL 94 V-0	Epoxy encapsulated housing ABS/PVS UL 94 V-0
<b>SAFETY SPECIFICATIONS</b>					
<b>SAFETY REQUIREMENTS</b>	UL Recognized: UL STD 61010-1 Certified to: CAN/CSA STD C22.2 No. 61010-1 	UL Recognized: UL STD 61010-1 Certified to: CAN/CSA STD C22.2 No. 61010-1 	Compliant with IEEE C57.13-1993 CE Mark 	Compliant with IEEE C57.13-1993 CE Mark 	Compliant with IEEE C57.13-1993 CE Mark 
<b>WORKING VOLTAGE</b>	600 VAC Category III	600 VAC Category III	Maximum 600 Vrms UL 506	Maximum 600 Vrms Category III	Maximum 600 Vrms Category III

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Process Technique offers a wide selection of DENT current transformers. Choose from compact and economical Split-Core CTs, convenient Clamp-On style CTs, or the versatile Rogowski Flex CTs. Each type offers its own particular advantages depending on your application. DENT CTs are interchangeable to meet your varying project requirements.

<b>LARGE SPLIT CORE</b> SCL-0600, -1000	<b>150A CLAMP-ON</b> CON-0150EZ	<b>1000A CLAMP-ON</b> CON-1000	<b>ROCOIL</b> R16, R24, R36, R72	<b>ROCOIL mV</b> RMV-16, -24, -36, -72
				
5.1 cm (2.0")	5.2 cm (1.0")	5.2 cm (2.0")	16": 13 cm (5") 24": 19 cm (7") 36": 26 cm (10") 72": 56 cm (22")	16": 13 cm (5") 24": 19 cm (7") 36": 26 cm (10") 72": 56 cm (22")
333 mV at rated current	333 mV @ 150 Amps AC	333 mV/A @ 1000 Amps AC	131 mV/1000A @ 60 Hz 110 mV/1000A @ 50 Hz	333 mV AC at rated current Max output 1,665 mVAC
30-780, 20-1300 Amps	.5 to 300 Amps	20 to 1200 Amps	EXC/ESP/PS3/PS24: 5-5000 Amps* PS18: 50-3500 Amps	16: 101300A 24: 302600A 36: 303900A 72: 606000A
600, 1000 Amps	150 Amps	1000 Amps	3000 Amps	16, 1000A 24, 2000A 36, 3000A 72, 6000A
+/- 1% at 10% to 130% of rated current	<1% at rated current	+/- < 1%	+/- 1% reading	1% typical at 2% to 500% of rated current
<2° at rated current	< 1° from 5 to 25A 1° from 25 to 150A < 1.5° from 150 to 300A	+/- < 1°	< 1° at 50/60 Hz	< 1° at rated current
50 Hz to 400 Hz	50 Hz to 400 Hz	30 Hz to 5 kHz	40 Hz to 5000 Hz	45 Hz to 600 Hz
5000V around the case 600V rated leads	5200 VAC, CAT III	5200 VAC, 50/60 Hz between primary, secondary and the outer case of the handle	7400 VAC around coil 1000 VAC rated leads	7400 VAC around coil 600 VAC rated leads
12.07 x 12.70 x 3.05 cm (4.8 x 5.0 x 1.2")	8.7 x 5.0 x 1.9 cm (3.4 x 1.9 x 0.8")	21.6 x 11.1 x 4.5 cm (8.5 x 4.4 x 1.8")	Length 16"(40 cm) Length 24"(60 cm) Length 36"(90 cm) Length 72"(180 cm)	Length 16"(40 cm) Length 24"(60 cm) Length 36"(90 cm) Length 72"(180 cm)
748 g (26 oz)	136 g (4.8 oz)	500 g (19 oz)	16": 184 g (6 oz) 24": 216 g (7 oz) 36": 312 g (11 oz) 72": 495 g (17 oz)	16": 184 g (6 oz) 24": 216 g (7 oz) 36": 312 g (11 oz) 72": 495 g (17 oz)
White lead is positive	Red lead is positive	Red lead is positive	White lead is positive	Red lead is positive
Leads 2.7 m (8 ft) twisted pair, 20 AWG	2.4 m (8") 22 gage, 600V	3 m (118") Double insulated	2 m (79") shielded cable	2 m (79") shielded cable
(-4° to 131 °F)	-20° to 70 °C (-4° to 158 °F)	-10° to 50 °C (14° to 120 °F)	-10° to +80 °C (+14° to +176 °F)	-20 °C to +60 °C (-4° to +140 °F)
Maximum 80 °C (176 °F)	-25° to 70 °C (-13° to 158 °F)	-20° to 70 °C (-4° to 160 °F)	Maximum 80 °C (176 °F)	Maximum 60 °C (140 °F)
Epoxy encapsulated housing ABS/PVS UL 94 V-0	White ABS, UL 94 V-0	IP 40 (IEC 529) UL 94 V-0	Thermoplastic Rubber UL 94 V-0	Thermoplastic Rubber UL 94 V-0
Compliant with IEEE C57.13-1993 CE Mark	UL Recognized: UL STD 61010-1 Certified to: CAN/CSA STD C22.2 No. 61010-1	CAN/CSA STD C22.2 No. 61010-1	CE Mark, Double Insulation, EN-61010 CAN/CSA STD C22.2 No. 61010-1	Conforms to UL STD 61010-1 Certified to CAN/CSA STD C22.2 No. 61010
				
Maximum 600 Vrms Category III	Maximum 600 Vrms Category III	Maximum 600 Vrms Category III	Maximum 1000 Vrms Category III	600 Vrms maximum Category III

\*Depending on meter compatibility. ELITEpro SP (v.212 or newer firmware) and PowerScout 3 (v3.16 or newer firmware) rated for 5-5000A.



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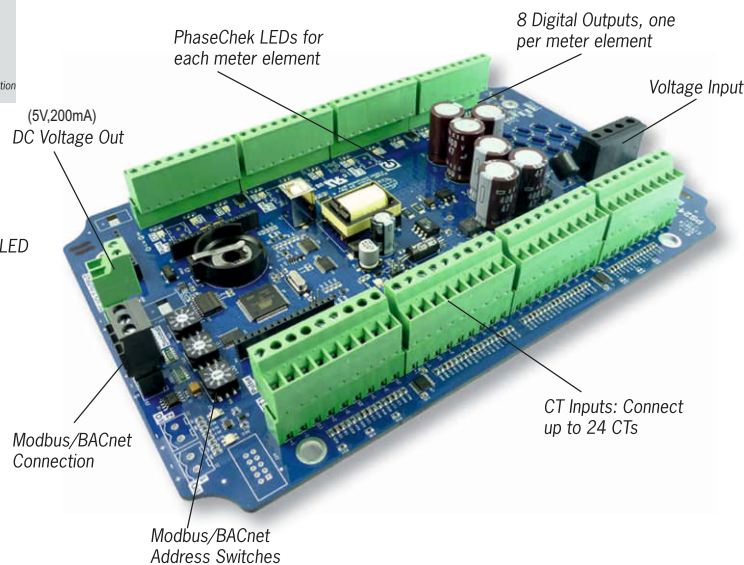
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## FEATURES :

- Monitors voltage, current, power, energy, and many other electrical parameters on single and three-phase electrical systems.
- Available in single point 3-phase meter (PowerScout 3 Plus) or multi-circuit configuration (PowerScout 24).
- The PowerScout 3 Plus uses either BACnet or Modbus protocol and features two digital pulse output ports. Available as a Serial or Ethernet device.
- The PowerScout 24 uses either BACnet or Modbus protocol and is available with optional pulse output ports. Available as a Serial device only.
- Mix-and-match a full range of Split Core or RoCoil™ Rogowski-style current transformers.
- PhaseChek™ LED indicators confirm proper CT-Orientation
- Line-Powered: 80-600V Phase-to-Phase Power Supply.
- PS3+: Data updates occur every 0.5 seconds. PS24: Data updates every 1 second.
- UL and CE Mark
- ANSI C12.20-2010 Class 0.2 ( PowerScout 3 Plus )

## POWERSCOUT 24 ANATOMY



# POWERSCOUT

## Networked Power meter

### 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 CAT III 50/60Hz, 70mA Max. Non-user replaceable .5 Amp internal fuse protection
<b>POWER OUT</b>	Unregulated 5V DC output, 500mA max
<b>VOLTAGE CHANNELS*</b>	80-346 Volts AC Line-to-Neutral, 600V Phase-to-Phase, CAT III
<b>CURRENT CHANNELS</b>	3 or 24 channels, 0.67VAC max, 333 mV CTs, 0-5,000 Amps depending on CTs
<b>MAXIMUM CURRENT INPUT</b>	200% of current transducer rating (mV CTs) Measure up to 5000A with RoCoil CTs
<b>MEASUREMENT TYPE</b>	True RMS using high-speed digital signal processing (DSP)
<b>LINE FREQUENCY</b>	50/60 or 400 Hz
<b>WAVEFORM SAMPLING</b>	12 kHz
<b>PARAMETER UPDATE RATE</b>	<b>PS3:</b> .5 seconds, <b>PS24:</b> 1 second
<b>MEASUREMENTS</b>	Volts, Amps, kW, kWh, kVAR, kVARh, kVA, kVAh, aPF, dPF.
<b>ACCURACY</b>	PS3: 0.2% (<0.1% typical) ANSI C12.12-2010 Class 0.2 PS24: 1%(<0.5% typical) for V, A kW, kVAR, kVA, PF.
<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>LED INDICATORS</b>	Bi-color LEDs (red and green): 1 LED to indicate communication, 3 LEDs for correct CT-to-phase installation (per meter element).
<b>PULSE OUTPUT</b>	Open Collector, 75mA max current, 40V max open voltage

### SAFETY

<b>POWERSCOUT 3 PLUS</b>	UL and CE Mark
<b>POWERSCOUT 24</b>	Conforms to UL Std 61010-1
<b>POWERSCOUT 3 ETHERNET</b>	Certified to CSA Std C22.2. No. 61010-1

### COMMUNICATIONS

<b>DIRECT</b>	<b>PS3:</b> User selectable Modbus or BACnet Master Slave Token Passing protocol (MS/TP). Ethernet. <b>PS24:</b> Modbus or BACnet MS/TP
<b>MAX DISTANCE</b>	1200 meters with Data Range of 100K bits/second or less
<b>BAUD RATE</b>	9600 (Modbus default), 19200, 38400, 57600, 76800 (BACnet default), 115200
<b>DATA BITS</b>	8
<b>PARITY</b>	None, Even, Odd
<b>STOP BIT</b>	2, 1, 0
<b>DATA FORMATS</b>	Modbus or BACnet (MS/TP)

### MECHANICAL

<b>OPERATING TEMPERATURE</b>	-7° to 60°C (-20° to 140°F)
<b>HUMIDITY</b>	5% to 95% non-condensing
<b>ENCLOSURE</b>	<b>PS3:</b> ABS Plastic, 94-V0 flammability rating <b>PS24 (optional):</b> PC UL 94 5V
<b>WEIGHT</b>	<b>PS3:</b> 357 g (12.6 ounces), exclusive of CTs <b>PS24 Without Enclosure:</b> 369 g (13 oz) <b>PS24 With Enclosure:</b> 610 g (21.5 oz)
<b>DIMENSIONS</b>	<b>PS3:</b> 21.8 x 5.8 x 4.0 cm (8.6"x 5.8"x 1.6") <b>PS24 Without Enclosure:</b> 25.5 x 16.5 x 3.2 cm (10.0"x 6.5"x 1.3") <b>PS24 With Enclosure:</b> 27.8 x 18.8 x 13.0 cm (10.9"x 7.4"x 5.1")