Centrica

Panoramic Power

Wireless Sensor Family Technical Specifications

Panoramic Power's electricity sensors are non-invasive, self-powered, and miniature wireless current sensors designed for real-time energy monitoring. The sensors clamp onto electrical circuit wires without requiring maintenance, batteries, or external power sources. Their wireless capabilities ensure seamless integration with energy management systems, delivering critical data every 10 seconds.

- Easy to Install and Integrate
- Compact and Non-Invasive
- Self-Powered Operation
- Wireless Connectivity
- High Accuracy
 (Compliant with Industry Standards)
- Multi-Phase Support (Single, Dual, and Three-Phase with PAN-42)

PAN-10 & PAN-12 WIRELESS CURRENT SENSORS

	Centrica Centrica	- Co- Marine	
Specification	PAN-10 Sensor	PAN-12 Sensor	
Dimensions	17 × 20 × 32 mm (0.67 × 0.79 × 1.26 in)	46.2 × 22.8 × 32.6 mm (1.82 × 0.90 × 1.28 in)	
Max Hot-Wire Outer Diameter	7 mm (0.28 in)	18.8 mm 0.74 in)	
Current Range	0 – 63 A	0 – 225 A	
Accuracy	Typically <2% at I > 3 A	Typically <2% at I > 3 A	
Min Operating Current	0.5 – 1 A (typical)	0.7 – 1.2 A (typical)	
AC Frequency	50 Hz (EU) / 60 Hz (US)		
Transmission Frequency	434 MHz (EU) / 915 MHz (US)		
Transmission Power (ERP)	0 dBm (EU, US)		
Data Transmission Interval	10 seconds		

PAN-14 WIRELESS HIGH-CURRENT SENSOR



PAN-14 Sensor

Dimensions	33.8 × 29 × 42.5 mm (1.33 × 1.14 × 1.67 in)
Current Input	0 – 5 A (up to 10 A peak)
Range	(from external CT
Measurement	Determined by
Range	external CT
Accuracy	Typically <2% at I > 0.1 A (input from CT)
Min Operating	0.5 – 1 A
Current	(typical)
AC	0.03 – 0.05 A
Frequency	(input from CT)
Transmission	50 Hz (EU)
Frequency	60 Hz (US)
Transmission	434 MHz (EU)
Power (ERP)	915 MHz (US)
Data Transmission Interval	10 seconds

PAN-42 WIRELESS POWER SENSOR

Specification	PAN-42 Sensor
Voltage Inputs	4-wire Wye, 3-wire Delta, single-phase 3-wire, single-phase 2-wire, dual-phase 3-wire
Voltage Levels	120/208 V, 240/416 V, 277/480 V
Frequency Range	48-62 Hz
Current Input Range	0 – 5 A (up to 10 A peak) (from external CT)
Minimum Measurable Power	0.025W at device inputs (per phase)
Outputs	 Active energy (kWh) – accumulated, per phase True RMS voltage and current – per phase Active and reactive power – per phase Power factor – per phase Line frequency
Accuracy	ANSI C12.1 (Class 1) (assuming CT of class 0.2 or better)
Transmission Frequency	434 MHz (EU) / 915 MHz (US)
Transmission Power (ERP)	0 dBm (max)
Data Transmission Interval	10 seconds



CERTIFICATIONS & COMPLIANCE

🟓 🛛 USA & CANADA

- Safety UL 61010-1, UL 61010-2-030, CAN/CSA-C22.2 No. 61010-1 (ETL listed)
- EMC FCC Part 15 Subpart B, ICES-003
- Radio FCC Part 15 Subpart C, RSS-210, RSS-Gen
- **PTCRB** Listed

(EUROPE & UK

Safety EN 61010-1, EN 61010-2-030 (CE)

EMC EN ETSI 301 489-1, 301 489-3, 301 489-17, 613 326-1, 301 489-52, 61000-3-2, 61000-3-3

Radio EN ETSI 300 220-1, 300 220-2, 300 328



Standard IEC 61010-1, IEC 61010-2-030 (by Intertek Testing Services)

OTHER TECHNICAL RATINGS

Flammability Rating (Enclosure)	UL94 V-0
Ingress Protection (IP)	IP5X
Operating Temperature	-25 – 60°C (-13 – 140°F)
Humidity Range	5% – 95% (non-condensing)
Storage Temperature	-25 – 65°C (-13 – 149°F)

In all other countries, our local partners are responsible for product certifications.

