

Panoramic Power's Wireless Power Sensor PAN-42

The PAN-42 wireless power sensor provides high accuracy real time power measurements and advanced power quality measurements for main power monitoring, submetering and for the metering of large devices. Designed for demanding electrical applications, supporting industry accuracy standards, Pan42 enables the metering of power, voltage, current, power factor and power quality measurement data. Information is sent wirelessly, through Panoramic's Bridge unit, to Panoramic's advanced cloud-based analytics platform. The data is then used to provide customers with actionable analytics and real-time dashboards and alerts. PAN-42 complements the Panoramic Power sensor family (PAN-10, PAN-12 and PAN-14) that is used for more granular monitoring of individual circuits and devices. Together, they deliver a comprehensive range of metering and monitoring tools to reduce energy costs and maximize energy efficiency.

Specifications PAN-42	
4-wire Wye, 3-wire Delta, single-phase 3-wire, single-phase 2-wire, or dual-phase 3-wire - Voltage: [120V / 208V], [240V / 416V], or [277V / 480V] - Frequency: 48-62 Hz - CT current input: standard 0-5 A_{rms} - Current measurement range: Depending on CT ratio - Minimum current (at device input) ≤ 0.05 A_{rms} (1% of full scale)	
Outputs - Active Energy (kWh) – accumulated - True RMS Voltage/Current – per phase - Active/Reactive Power – per phase - Power Factor – per phase - Total Harmonic Distortion (%) – per phase (Voltage and Current) - Neutral current - Frequency	
Accuracy (for Voltage, Current and Active Energy)	According to IEC687 (Class 0.5)* According to ANSI C12.20 (Class 0.5)* *Assuming CT of class 0.2 or better
Pulse output	2 optically isolated outputs for active and reactive energy (kWh)
Transmission frequency	434 MHz (EU) 915 MHz (US)
Transmission power (ERP)*	0 dBm (Max)
Transmission interval	10 seconds
*Safety and EMC certificates	USA & Canada Safety: UL-61010-1, CSA-C22.2 (ETL listed) EMC/Radio: FCC Part 15 subpart B, C Europe Safety: EN-61010-1 (CE) EMC: EN-ETSI 301489-3, Radio: EN-ETSI 300220-1
Dimensions	110.3 × 81 × 37.2 mm 4.34 × 3.19 × 1.46 inch
Weight	200 g
Mounting Options	Wall mount or DIN top hat rail EN50022 - 35x7.5
Flammability rating of external enclosure	UL94 V-0
Operating temperature	0 – 50° C 32- 122 F
Storage temperature	-20 – 65° C -4-149 F
Display	3 LEDs for phase indications and additional LED for on line status indication.

*Pending certification testing

** Product is not available yet. Content is not final and may be changed or modified in the future



Key Features

- Single or 3 phase metering
- Accurate measurement of active and reactive power
- Real time monitoring of current, voltage, power and power quality
- Integrated within the Panoramic Power cloud based energy management platform
- Fast and easy installation