

Panoramic Power Bridge



Overview

Panoramic Power's Enterprise Energy Management Solutions monitor an organization's energy consumption at the circuit level. The solution detects energy usage via wireless, self-powered sensors that are easily attached to the circuits. The sensors transmit data through the bridge, and the energy information is delivered every 10 seconds to PowerRadar™, the solution's cloud-based analytics platform.

Two bridge variants are available: Gen3 (PAN-2-H-3G-US/EU V3) and Gen4 (PAN-2-H-3G-US/EU V4)

Technical specifications

Physical dimensions (without antennas) 111 x 87 x 35 mm/4.4 x 3.4 x 1.4 inch

Weight (with antennas) 150 gr/0.33 lb

Power adapter (included) Input: 100-240VAC 50-60Hz, Output: 5VDC

Power consumption 5 W max

Sensor receiver frequency 915 MHz (US version)/434 MHz (EU version)

Sensor reception sensitivity -105dBm

Wi-Fi protocol 802.11 b/g/n

Wi-Fi security protocol WEP64, WEP128, WPA, WPA2, WPA2-Enterprise

Compression Sensor messages are collected and sent once every 10 seconds to reduce bandwidth

Authentication CHAP protocol used by the server to verify connected bridge's identity

Modbus interface RS485 Modbus port can be customized*

*RS485 Modbus port can be customized to communicate data from external devices. Customizations will require further requirements gathering by our services group.

Bridge



Key features

- Plug-and-play installation
- Flexible mounting options
- Wi-Fi/Ethernet connectivity
- Cellular (3G GSM) connectivity
- Store capability in case of network loss
- Field-upgradable firmware
- Initial configuration (built-in web interface)



Technical specifications

Pulse Interface **Available with GEN4 ONLY**
2x KY inputs (5V open voltage, 0.9mA max current)

Certification

USA & Canada
Safety: UL-61010-1, 61010-2-030; CAN/CSA-C22.2 No. 61010-1, 61010-2-030 (ETL listed); EMC: FCC Part 15 Subpart B, ICES-003 PTCRB listed

Europe
Safety: EN-61010-1, EN 61010-2-030 (CE); EMC: EN-ETSI 301489-1, 301489-3, 301489-17, 61326-1; Radio: EN-ETSI 300220-1, 300220-2, 300328

CB certification IEC 61010-1, IEC 61010-2-030 by Intertek Testing Services

Flammability rating (enclosure) UL94 V-0

Operating temperature 0–60°C/32–140°F

Storage temperature -20–70°C/-4–158°F