

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, PAN-2-H-JP 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 - 240 VAC 50 - 60Hz, Output: 5 VDC
Power Consumption	5 W max
Sensor Receiver Frequency	915 MHz (US version) / 434 MHz (EU version) / 923 MHz (JP version)
Sensor Reception Sensitivity	-105 dBm
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*

* 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 using built-in web interface

** Cellular module is not available for Japan



Technical specifications

Pulse Interface

Available with GEN4 ONLY

2x KY inputs (5 V open voltage, 0.9 mA max current, 5 ms min pulse width)

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

GEN3: 0 – 60°C / 32 – 140°F

GEN4: -20 – 60°C / 32 – 140°F

Storage Temperature

-20 – 70°C / -4 – 158°F