Specifications

The 433 MHz gateway shall be a wireless network-to-Ethernet bridge designed to collect and consolidate data captured from wireless sensors. Data shall be stored locally up to 16,000 messages in case of disconnection from network. The gateway shall transmit data to an online or premises based configuration management / database system. The configuration management / database system shall allow review and export of the information as a data sheet or graph. The system shall alert the user(s) when a measurement exceeds a pre-defined set point. Notifications shall be configured based on time of day parameters.

Key Features and Benefits

**Intelligent hardware:** Collects, consolidates, and relays data from and manages the SynapSense® 433 MHz wireless network.

**433 MHz frequency:** Provides 250-300 ft wireless range non-line of sight/indoors for greater penetration through walls, ceilings and floors to help improve operational efficiency.

**PoE powered:** Avoids complex cabling installations, minimizing time, labor and material costs.

**Data retention:** Designed to buffer, retain and resend data when the Ethernet connection is lost, thereby increasing the resiliency of the network by avoiding loss of critical data.

**Data acknowledgment:** Sends messages to confirm connection between gateway and sensors to ensure data integrity.

**Single IP address scalability:** Allows interconnect ability of up to 100 sensors on a single wireless network gateway through one single IP address, reducing the need for separate IP ports, IP capital costs and management overhead.

**Status LEDs:** Provide information on hardware, LAN, and WSN status for quick visual diagnostics.

**Flexible installation:** Can be mounted with cable ties or optional gateway mounting kit for convenience.

Applications

The SynapSense® 433 MHz Gateway is part of the Panduit® SynapSense® 433 MHz Wireless Monitoring System which provides a low-cost, easy-to-deploy solution to gather, communicate, and visualize data within the facility to improve reliability, product quality, operational efficiency and energy optimization. The gateway collects data from wireless sensors via a 433 MHz wireless network, processes raw data and delivers it via Ethernet to the server. The system allows for complete configuration and customization at a sensor, local network, or client-wide level, making it ideal for applications such as: energy management, predictive maintenance, food safety, and environmental monitoring.

www.panduit.com/synapsense
SynapSense® 433 MHz Gateway

Technical Information

Dimensions 5.5" L x 5.25" W x 1.63" H (139mm L x 133.35mm W x 41.402mm H)


Housing ABS Plastic

Memory Up to 16,000 messages

Internet Protocol Supports IPv4 and IPv6

Maximum Weight 0.43Kg (15 oz.)

Power Requirements 5.5 V AC adaptor and 5.5 V PoE adaptor

Environmental -10 to +70 °C (14 to 158 °F)

IEEE Standard Compliance IEEE 802.3-2002

RF Data Range Up to 300 feet (91 m), non-line-of-sight*

Browser Windows Internet Explorer** 9.x or higher, Mozilla Firefox** 11.x or higher, or Google Chrome 17** or higher

Ethernet 10baseT – 100baseT

* Actual range may vary depending on environment.
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Dimensions

Top View of IOT-9GWPOE-4

Side View of IOT-9GWPOE-4

Dimensions are in inches. [Dimensions in brackets are metric.]

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