

CONNECTED POWER HUB

CSHUB3WHI

An intelligent hub designed for use within the connected power solution.

The hub acts as a bridge between the BMS and the installed outlets. The solution provides complete energy monitoring and control of receptacles to help reduce energy consumption or maintain power supply to critical assets and is capable of advanced temperature detection enhances user safety.

HUB FEATURES

- Can be wall mounted
- Screw covers protect mains input and data connectors
- Strain relief for power input

STANDARDS AND APPROVALS

- UL 62368-1 - CSA C22.2 No. 62368-1:19
- UL 2043, Fourth Edition, October 2, 2013
- RoHS 3
- Proposition 65
- TSCA
- FCC rules and regulations part 15 subpart C, RSS-247 issue August 3, 2023
- FCC EMC: 47 CFR part 15 subpart B, IEEE, ANSI C63.4-2014
- ISED EMC: ICES-003 issue 7: October 2020, ANSI C63.4-2014 amended as per ANSI C 63.4a-2017
- FCC RF: KDB447498 D01 general RF exposure V06
- IC RF: RSS-102 issue March 5, 2015

SOLUTION FEATURES

- Graphically display at BMS and drill down capability, for full solution insights
- Energy metering at each outlet and individual receptacle
- Local control over receptacle state ON, OFF
- Remote and automatic control over receptacle state from BMS ON, OFF, LOCK ON, LOCK OFF
- Grouping of outlet and, on receptacles
- Scheduling of receptacles, groups
- Low and high power levels per receptacle
- Ability to raise alerts and, or change receptacle states depending upon temperature at outlet
- Internal outlet temperature monitoring
- E-mail option for alerts
- Ability to update firmware in the field
- Reset capability
- Commissioning enablement button
- Compliant with IECC, ASHRAE 90.1 and Title 24 standards.



CSHUB3

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TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATION

Operating voltage: 95 to 125 VAC

Operating frequency: 60 Hz

Standby power consumption: <2 W

Terminal capacity: 1 x 14 AWG (stranded)

IP rating: IP2X

Active power consumption: <5 W

RADIO FREQUENCY

MESH network

Outlet to hub: 82 ft (25 m)

No of hops: <=3

BLE: Commissioning purpose ONLY

BQB (Bluetooth® qualification body): D058742

Antenna type: Built-In

WIRED COMMUNICATION

RJ45 connector, BACnet, IP (ASHREA-135 Annex J), BACnet protocol revision: 18

ENVIRONMENTAL

Operating temperature: 32 to 113 °F (0 to +45 °C)

Storage temperature: -4 to 140 °F (-20 to +60 °C)

Humidity: 0 to 95 % RH non-condensing

Max. Installation altitude: 6561.7 Feet (2000 meters)

INSTALLATION

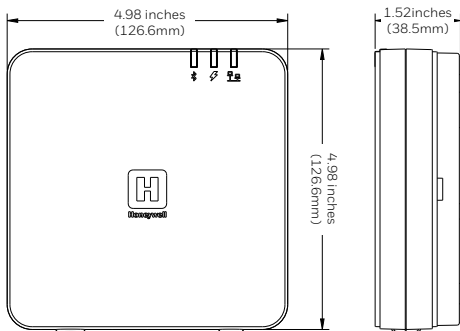
Back boxes (minimum dimensions - 2 inches x 3 inches x 2 1/2 inches)

WEIGHT

0.805 lbs. (356 g) (exclude package weight)

WARRANTY

10 years



CSHUB3WHI

LED INDICATIONS - BLE, POWER, NETWORK LED'S, YELLOW AND GREEN.

CONDITION	INDICATION	NOTES
POWER		
Hub Powered	Power LED constantly GREEN	Powered
BLE NETWORK & COMMUNICATION STATUS INDICATIONS		
Not in a Network	Single short YELLOW flash of BLE LED for 0.3 s every 10 s	Hub not linked to any outlet. Note: If both BLE and ethernet are not in networks then indications will be synchronised
Network joined	Single long GREEN flash of BLE LED for 3 s (then only illuminated during comms activity)	-
In a network	-	There is no specific indication for being in a network and linked to a outlet. The lack of the not-in-network and active comms signals is sufficient.
In a network and transmitting, receiving data	BLE LED flashes GREEN for minimum 1 s (4 Hz 50 % duty cycle)	When transmitting or receiving any data to and from the supervisor
ETHERNET NETWORK & COMMUNICATION STATUS INDICATIONS		
Not in a network	Single short YELLOW flash of ethernet LED for 0.3 s every 10 s	Hub not linked to a supervisor. Note: If both BLE and ethernet are not in networks then indications will be synchronised
Network joined	Single long GREEN flash of ethernet LED for 3s (then only illuminated during coms activity)	-
In a network	-	There is no specific indication for being in a network and linked to a outlet. The lack off the not-in-network and active comms signals is sufficient.
In a network and transmitting, receiving data	Ethernet LED flashes Green for minimum 1 s (4 Hz 50 % duty cycle)	When transmitting or receiving any data to and from the supervisor
OTHER INDICATIONS		
BLE start, identification	Power LED only flashes GREEN 10 times (1 Hz, 50 % duty cycle)	-
NVM reset	Both RF and ethernet comms LEDs flash YELLOW together 10 times (1 Hz, 50 % duty cycle)	On completion of the NVM reset process after all data reset
Reset password	Both RF and ethernet comms LEDs flash YELLOW together 10 times (1 Hz, 50 % duty cycle)	-

Building Automation

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