

# CONNECTED POWER HUB



POWERING  
THE FUTURE



## PART NUMBERS

CSHUB1WHI

## STANDARDS AND APPROVALS

Low Voltage Directive (2014/35/EU),  
EMC Directive (2014/30/EU),  
RoHS Directive (2011/65/EU) and amendment RoHS  
Directive (EU) 2015/863  
EN IEC 62368-1:2020/A11:2020  
EN 300 328 V2.2.2  
ETSI EN 301 489-1 V2.2.3  
ETSI EN 301 489-17 V3.2.4  
EN 55032: 2015/A11:2020  
EN 55035: 2017/A11:2020  
EN IEC 61000-3-2:2019  
EN 61000-3-3: 2013+A1:2019  
EN 50663: 2017  
EN 62479: 2010

## REGIONAL CERTIFICATION

TRA - UAE  
UAE ROHS - UAE  
DWLFM - Bahrain  
CITRA - Kuwait  
TRC - Jordan

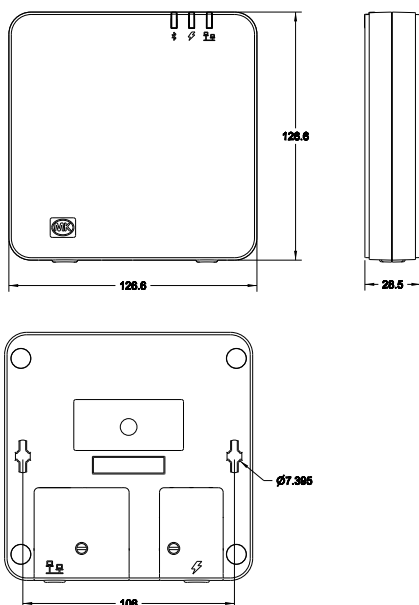
An intelligent HUB designed for use within the Connected Power Solution. The HUB acts as a bridge between the BEMS and the installed sockets. The solution provides Energy Monitoring, Control and advanced level detection for each socket outlet, minimising CO<sub>2</sub> emissions and reducing energy consumption by powering plug in equipment only when needed.

## HUB FEATURES

- Can be ceiling or wall mounted
- Screwed covers protect mains input and Data Connectors
- Strain relief for mains input

## SOLUTION FEATURES

- Graphically display at BEMS and drill down capability, for full solution insights
- Energy Metering at each socket outlet
- Local Control over outlet state ON/OFF
- Remote and Automatic control over outlet state from BEMS ON/OFF/LOCK ON/LOCK OFF
- Grouping of Outlets
- Scheduling of Outlets/Groups
- Low and High power levels per outlet
- Ability to raise Alerts and/or change outlet states depending upon temperature at Socket
- Internal socket temperature monitoring
- Ability to raise Alerts and/or change outlet state dependent upon power or temperature levels
- E-mail option for Alerts
- Ability to update firmware in the field



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## TECHNICAL SPECIFICATION

### ELECTRICAL

#### OPERATING VOLTAGE

180~274VAC

#### OPERATING FREQUENCY

47~63Hz

#### STANDBY POWER CONSUMPTION

<2W

#### IP RATING

IP2X

#### ACTIVE POWER CONSUMPTION

<3W

### RF

MESH Network

#### SOCKET TO HUB

25m

#### No OF HOPS

<=3

#### FREQUENCY

2402MHz~2483MHz

### 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

### ENVIROMENTAL

#### OPERATING TEMPERATURE

0°C ~ +45°C

#### STORAGE TEMPERATURE

-20°C ~ +60°C

#### HUMIDITY

0 ~ 95% non-condensing

#### MAX. INSTALLATION ALTITUDE

2000 metres

### WEIGHT

201g (Exclude Package Weight)

### LED INDICATIONS

BLE/Power/Network LED's.  
Yellow and Green



## LED INDICATOR GUIDE

CONDITION	INDICATION	NOTES
<b>POWER</b>		
Hub Powered	Power LED constantly GREEN	Powered
<b>BLE NETWORK &amp; COMMUNICATION STATUS INDICATIONS</b>		
Not in a Network	Single short YELLOW flash of BLE LED for 0.3s every 10s	Hub not linked to any Socket. 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 3s (then only illuminated during coms activity)	-
In a network	-	There is no specific indication for being in a network and linked to a socket. The lack off the Not-in-Network and active comms signals is sufficient.
In a network and Transmitting/Receiving data	BLE LED flashes Green for minimum 1s (4Hz 50% duty cycle)	When transmitting or receiving any data to and from the supervisor
<b>ETHERNET NETWORK &amp; COMMUNICATION STATUS INDICATIONS</b>		
Not in a Network	Single short YELLOW flash of Ethernet LED for 0.3s every 10s	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 socket. The lack off the Not-in-Network and active comms signals is sufficient.
In a network and Transmitting/Receiving data	Ethernet LED flashes for minimum 1s (4Hz 50% Green duty cycle)	When transmitting or receiving any data to and from the supervisor
<b>OTHER INDICATIONS</b>		
BLE Start/Identification	Power LED only flashes GREEN 10 times (1Hz/50% duty cycle)	-
NVM Reset	Both RF and Ethernet Comms LEDs flash YELLOW together 10 times (1Hz/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 (1Hz/50% duty cycle)	-