

TRANSFORM ANY OUTLET INTO CONNECTED POWER CONTROL

Connected Power



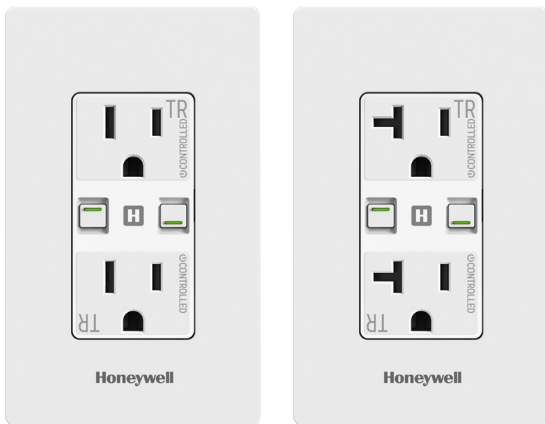
Honeywell

WHAT IS THE CONNECTED POWER SOLUTION?

Designed to reduce plug-in energy consumption in commercial buildings, Connected Power brings outlet control into either on-premises or cloud-based Building Management Systems.

In three steps, Connected Power brings full visibility, monitoring and control to your building's plug-in equipment

1 Replace traditional mechanical outlets with a range of intelligent networked electronic outlets.

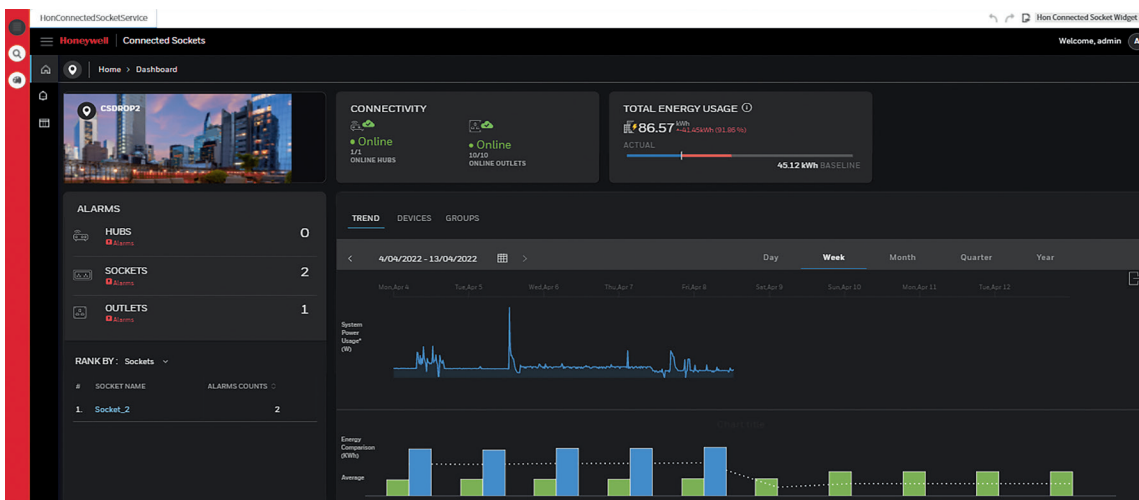


Logic Plus™ 15 Amp and 20 Amp respectively

2 Link the electronic outlets into a Honeywell Connected Power hub and connect to a local or cloud-based BMS supervisor.



3 Control, monitor and gain actionable insights from all plug-in equipment across your enterprise, within the Honeywell supervisor.



A REVOLUTION IN POWER MANAGEMENT

Outlets incorporate a secure Mira mesh technology interlink wirelessly into a Honeywell Connected Power hub.

Up to 50 hubs can run from any single system, reusing existing IP infrastructure, to give a maximum system capability of up to 2500 outlets or 5000 individual receptacles.

The unique supervisor dashboards display collective or detailed information regarding plug load usage across your building or buildings.

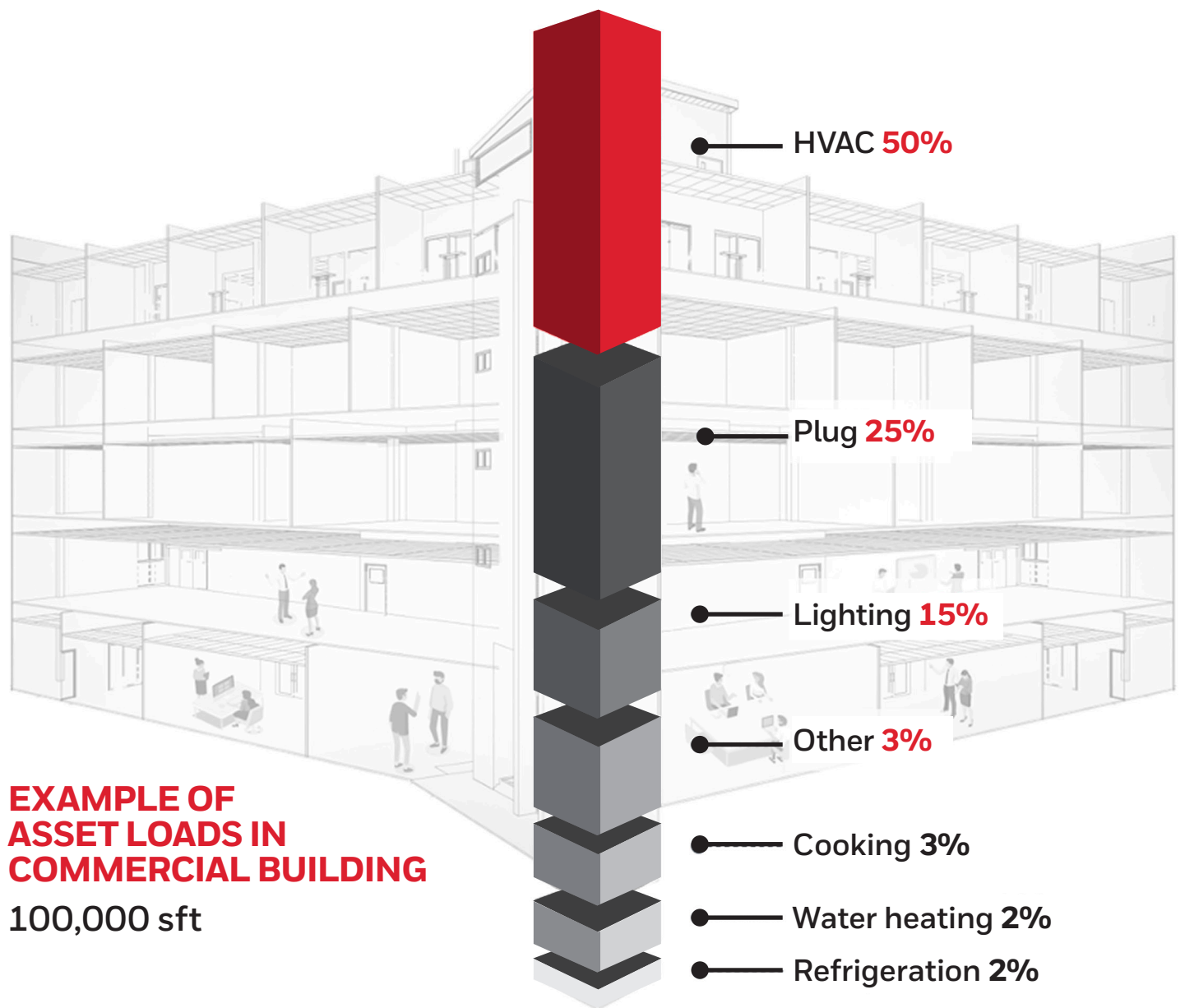
The user can control, monitor and set alerts related to power usage for all plugged in devices.

**TOTAL ENERGY
MONITORING IS
NOW POSSIBLE**

WHY IS CONNECTED POWER IMPORTANT?

Plug-in peripheral appliances and devices account for over 25%* of electrical usage in commercial buildings.

Plug loads often remain unaddressed, leading to high amounts of wasted power from idle devices and standby loads.



*Source: Energy Star, U.S. Energy Use Intensity by Property Type, August 2021, Accessed January 16, 2022

*Poll, S. and C. Teubert 2012. Data referenced by US General Data Administration.

PLUG LOADS ACCOUNT FOR OVER 25%* OF A COMMERCIAL BUILDING'S ELECTRICAL USAGE



Current building management systems offer insights into most aspects of building maintenance as illustrated below. The benefit of including plug-in energy information will create a more holistic solution to monitoring and controlling building electrical usage.

MONITORING	MEASURING	ANALYSIS	DASHBOARDS	DIAGNOSTICS	INTERFACE	REPORTS	ALARMS

Elevator	Generator	Fresh air handling unit	Access control				
Split air conditioner	closed-circuit TV	UPS	Fans				
Air handling units	Lighting	Water management	Fire	Water pumps	Water meter	Chiller	Fan coil units

WHO VALUES CONNECTED POWER?

ENERGY MANAGERS

who have HVAC and lighting under control and are looking for the next energy saving opportunity



- Hit aggressive energy reduction targets
- Find new technical innovations that aim compliance to specific regulations including California's Title 24

FACILITIES MANAGERS

who need to ensure their building operates with minimum disruption



- Turn equipment off remotely when it is not being used
- Monitor and be alerted to gradual increases in equipment energy usage prior to failure
- Valuable management of critical equipment, ensuring these are running when required

SENIOR MANAGEMENT

who want to provide a safe and secure environment for all staff and visitors



- Automatically turn off overloaded or overheating outlets
- Be alerted when staff use unauthorised equipment e.g. fan heaters

COMPLIANCE

Due to the substantial energy savings potential, commercial building energy codes such as ASHRAE 90.1, Title 24, and IECC now mandate controlled receptacles via occupancy sensing or schedule-based control.

Compliance with Title 24 in particular, is mandatory for all new construction, renovations, and alterations in California. Building projects must undergo thorough plan review and inspection to ensure compliance with these codes.

Stringent restrictions around 50% of outlets being controlled, manual override switches, demand response control, integration with occupancy sensors and ability to automatically switch off when scheduled are all now more than just aspiration, they are part of building compliance.

Get in touch for more information on compliance rules and expectations.

OUTLET FEATURES

TWO LAYERS PLATE

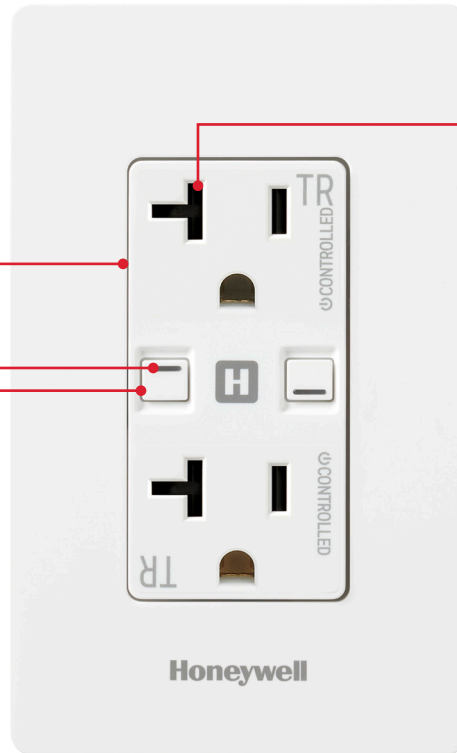
Shroud covering the gap box and module

LED INDICATOR

The device status

INDIVIDUAL CONTROL

Button control on receptacle



TAMPER RESISTANT

Child protection with tamper-resistant shutter

RESTART BUTTON

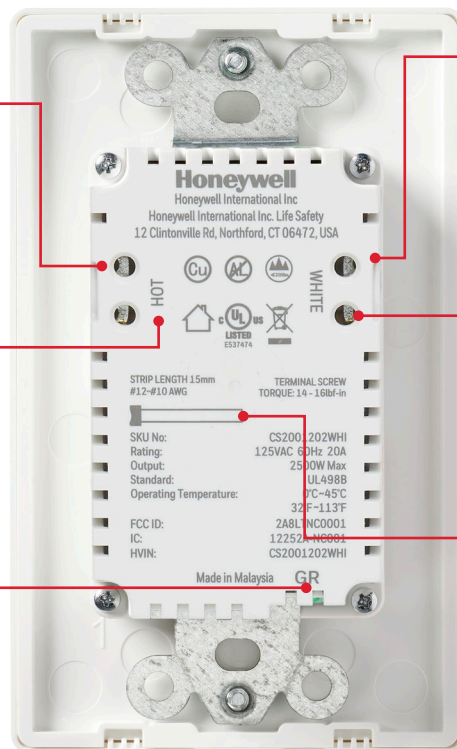
Override the device when needed

BACKED OUT AND CAPTIVE TERMINAL SCREW

TERMINAL MARKINGS

For easy identification

SINGLE GROUND



HIGHLY EFFICIENT HEAT DISSIPATION DESIGN

UPWARD FACING TERMINAL

LASER MARKING FOR STRIP LENGTH

CONNECTED POWER INSTALLATION ARCHITECTURE

EXISTING INFRASTRUCTURE

Honeywell's Connected Power solution uses the building's existing electrical infrastructure and wiring. With a combination of secure connectivity using innovative Mira mesh technology and Honeywell hardware, the solution provides complete control of plug-in equipment across the building or enterprise.

REMOTE ACCESS

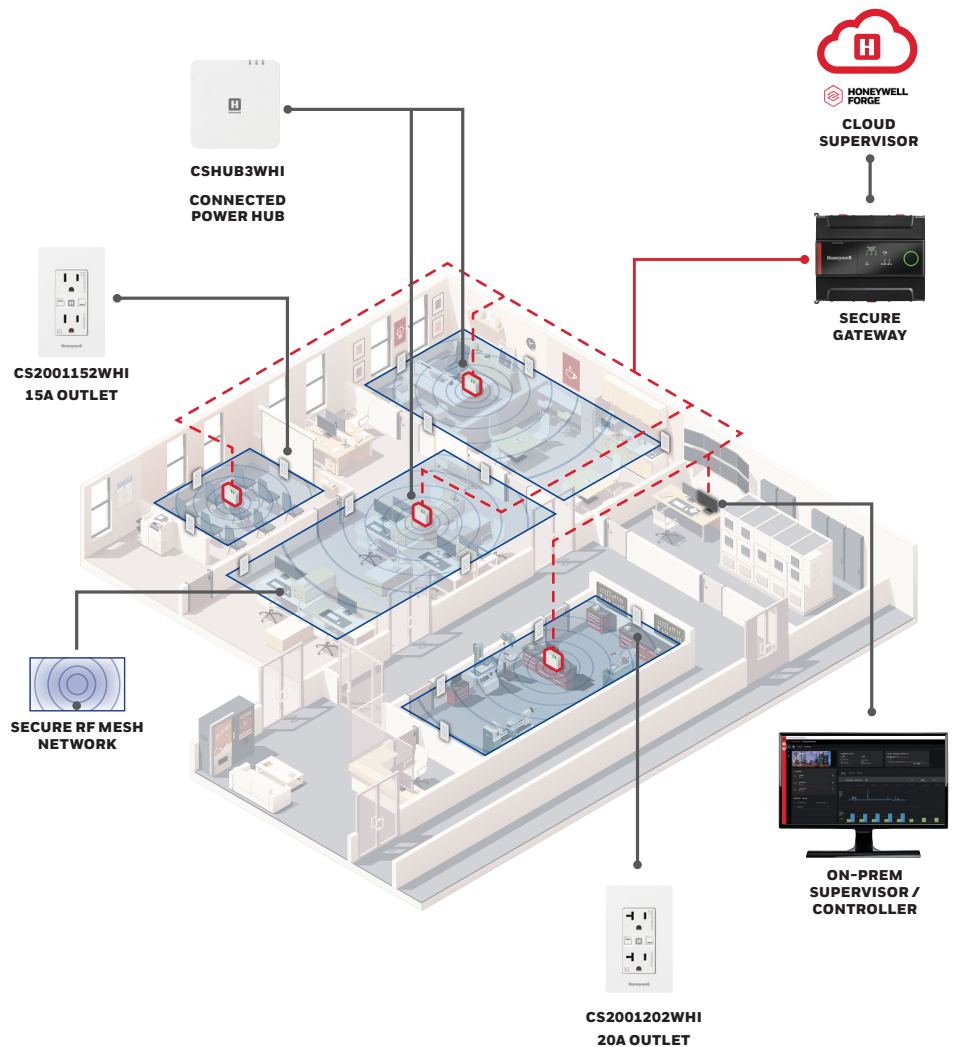
Honeywell's cloud-based Remote Building Manager (RBM) software gives Connected Power users access to additional benefits including remote access to the system, accessibility from any device with an internet connection, scalability to accommodate the needs of buildings of various sizes and complexities, reduced infrastructure costs, and the additional analytics and insights provided by utilizing the extended RBM dashboards.

ON-SITE INSTALLATION

Traditional Building Management Systems (BMS) are typically installed on-site (locally) and require dedicated hardware and software infrastructure to effectively manage functions like heating, ventilation, air conditioning (HVAC), lighting, security, and other building systems.

MONITOR AND CONTROL

Honeywell offers the user two options to monitor and control all building functions: either on-premise (locally) through full BMS integration or remotely through a unique cloud-based Supervisor - Remote Building Manager (RBM).



CONNECTED POWER INSTALLATION JOURNEY

STAGE 1

Site survey

Work with our dedicated team to highlight what is right for your installation.



STAGE 2

Specification

We will provide a tailored list of what is needed for your project.



STAGE 3

Installation

Once approved, the outlets and hubs will be installed by your electrical contractor.



STAGE 4

Commissioning

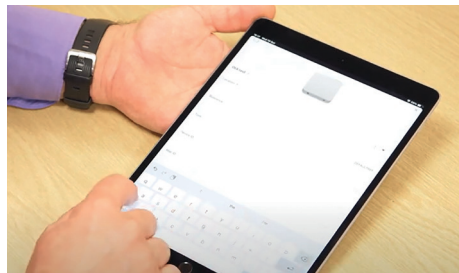
The electrical contractor will build the system virtually linking hubs and outlets using our portable app.



STAGE 5

Supervisor connection

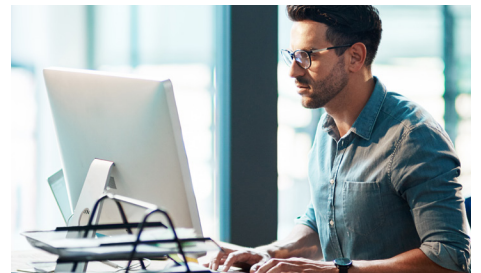
The system integrator will discover the network within the Honeywell IQVISION Supervisor.



STAGE 6

Configuration

The system integrator will configure the system to your exact requirements.





KEY FUNCTIONALITY



GROUPING

Outlets can be grouped together by location or equipment type for benchmarking and data analysis.



SCHEDULES

Outlets can be scheduled individually or by group.



CONTROL

Outlets can be set to turn ON, OFF or LOCKED ON or LOCKED OFF. When ON or OFF, outlets can also be controlled using the button on the outlet as you would do normally.



ALERTS

Alerts can be set to any outlet and can be related to power levels rising above or falling below a threshold or the internal outlet temperature rising above a particular setpoint.



DISPLAY AND ANALYSE

Through IQVISION you will be able to visually display all levels of energy usage and data for outlets, groups and the entire system - drilling down to understand the detail as needed.



TEMPERATURE MONITORING

The internal temperature of each outlet is continually monitored for conditions resulting in excessive heat.



ENERGY MONITORING

The energy consumption of each outlet is continually monitored and reported into the system at regular intervals.



RESPONSE TO ALERTS

On screen notices and emails can be generated. Outlets can be forced to change state automatically to the needs of the customers.

CONNECTED POWER CASE STUDY AND CAPABILITY

SCHOOL ENERGY MANAGEMENT

CUSTOMER PROBLEM

Plugged in equipment is rarely turned off and often left to run or 'on standby' 24/7. Connected Power provided energy efficiencies in a number of different building locations.



Kitchen

Turned off all possible equipment when service had finished and turned on again the next day ready for use.



Music room

Turned off all electronic equipment at the end of the school day. Pupils would need to turn on again when needed.



Gymnasium

Monitored detailed energy consumption for use with intent of turning off when machines were left unused for 10 minutes or longer.

ENERGY USAGE BY DAY THROUGH BASELINE AND EVALUATION PERIODS

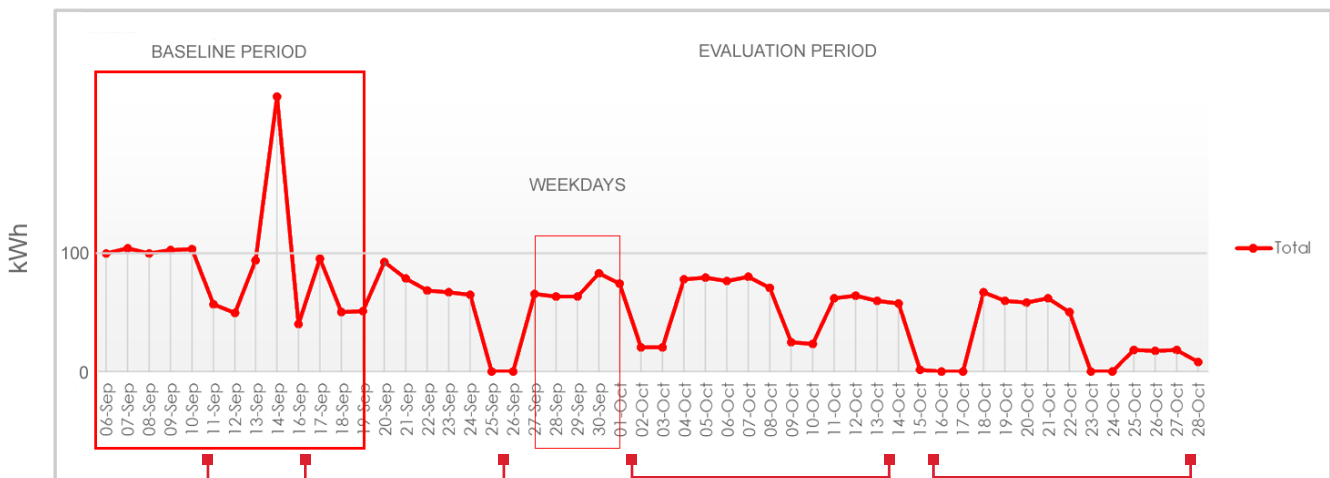
DEFINE

MEASURE

ANALYSE

IMPROVE

CONTROL



Equipment left on unnecessarily out of hours

Scheduling introduced

Weekend equipment turned OFF on Friday evening

Scheduling changed

Scheduling optimised

Honeywell offers the first fully integrated building small power management system. Ideal for both new build or retrofit, this market-changing innovation enables the building's energy management system to automatically monitor and control centrally or at an individual plug, providing greener, safer and more cost-effective building management.

Interested to learn more? Visit our website and fill out the form to speak to a Honeywell expert: [Hwll.co/ConnectedPowerNA](https://www.honeywell.com/ConnectedPowerNA)



For more information

[Hwll.co/ConnectedPowerNA](https://www.honeywell.com/ConnectedPowerNA)

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