

BubblyBox for Hotel Guest Room Keycard | B-1T-KC-00-00 Keycard B-1T-KC-00-DH Keycard + Thermostat Set Back



Contains

- 1 X C-T20-17-DJ00
- 1 X K-KO-UDB-00WH
- 1 X C-HVA-42-DS00

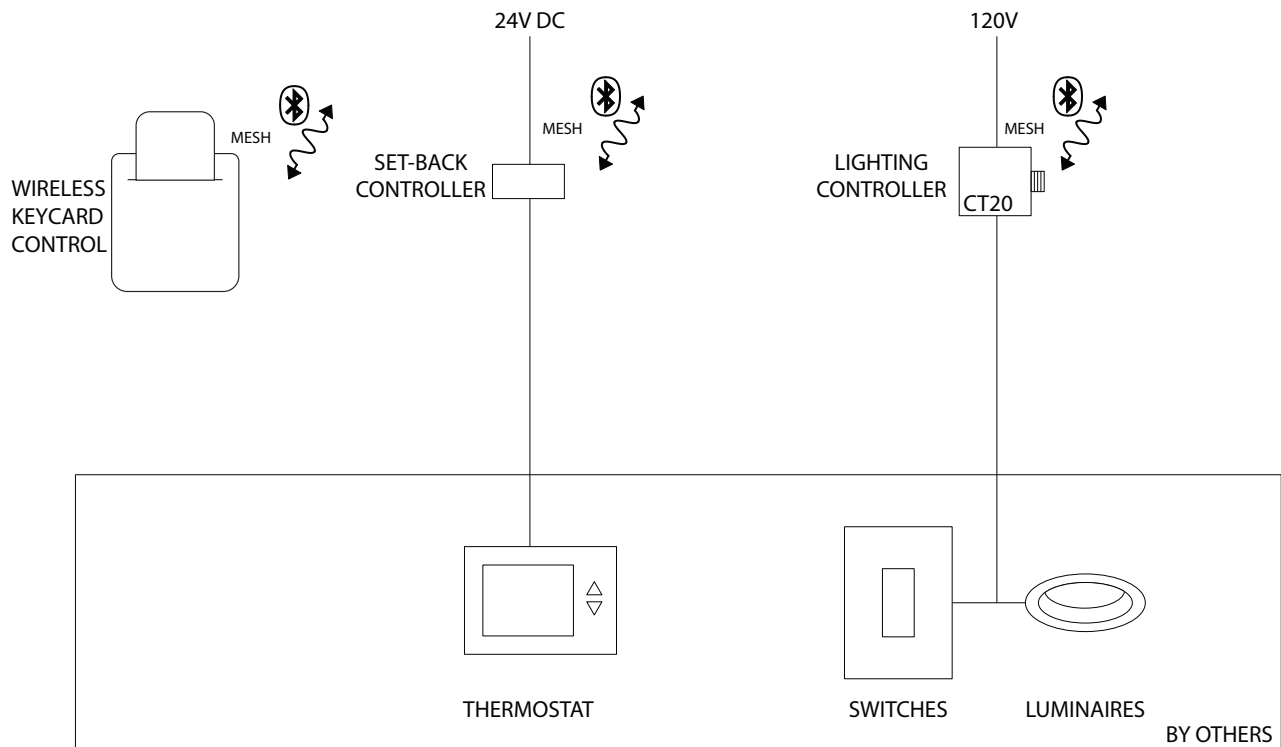
Description

When a Keycard Controller complies with code requirements such as IECC 2021 C403.7.6.1 or ASHRAE 90.1, this becomes the most cost-effective solution for hotel guestrooms.

BubblyBoxes are stand-alone control solutions in a box. BubblyBoxes are the ultimate in simplicity. They are already programmed on their own network and do not require for the installer to pair devices or open an app. All works as per sequence of operation.

All devices are labeled with a QR code identifying the network which allow BubblyNet Authorized Service Providers to modify settings or even reset the devices and re-add them to a network upgrading the stand-alone system to a full integrated networked system, all over-the-air and without the need of additional hardware.

- Dimensions - 5" x 5" x 5" (127 x 127 x 127mm)



20A Load Controller 0-10V / Plug Load | Model: C-T20-17-DJ00



Specification

- AC Input Voltage - 100-277VAC | 50/60Hz
- Output Relay - 100-277VAC | 50/60Hz | 20 Amps Max
- Operating Temperature - 4° to 122°F (-20° to 50°C)
- Wire Range - 12 - 18 AWG Wire
- Dimensions - 3.25" x 2.17" x 1.22"

Description

The Load Controller is a wireless Bluetooth NLC device that controls via Bluetooth any ON/OFF and/or 0-10V load up to 20 Amps. It can be installed outside of J-boxes through the standard opening according to electrical codes. It can control a single or multiple AC devices connected together.

Operation

The C-T20-17-DJ00 Load Controller operates on 100-277V. Once powered up, the device broadcasts its identification code waiting to be provisioned through the BubblyNet App.

Features

- Simple to Install
- Does Not Require a Gateway

Certification



Connectivity

Devices are repeaters for other devices and should be installed within a certain maximum distance from each other.

Typical maximum distance:

<u>Outdoor (line of sight):</u>	200ft
<u>Indoor (through building material):</u>	
Glass:	100ft
Drywall:	70ft
Cinderblock:	60ft
Brick:	50ft
Concrete + rebar	0ft

Devices with external antenna should have the antenna outside any metal box and away from metal surfaces as metal reduces connectivity.

For design purposes a 60ft. maximum distance is appropriate for most installations.

Relay Ratings

Load Type	100-277VAC Signal Converter with 20A Relay, SR-BL2421-SVVT
AC General Use	20A@120-277VAC
Resistive	20A@120VAC 20A@277VAC
Inductive	10A@120-277VAC
Capacitive	8A@120-277VAC
Motor	0.5HP@120VAC 1 HP@240VAC

Wireless Keycard Control | Model: K-K0-UDB-00WH



Certifications



Operations

The **K-K0-UDB-00WH** is specifically designed for hospitality applications. When the guest enters his/her room, the insertion of the key into the slot activates whichever is the intended effect. From the simple powering of the entire room with a BT relay, to the most sophisticated welcome scene including the gradual turning ON of the lights, opening the motorized curtains, HVAC at a specific setting, subtle accents of music and more. When the guest leaves the room and takes the key with him/her, with or without a set delay, the vacant room settings become effective. Its wireless technology allows for installations that would be extremely difficult or impossible, such as historical buildings, glass walls, furniture and thin partitions. With an extremely clean design. It provides convenient control of lighting and a wide variety of electric loads, activating them when a standard key card is inserted and deactivating with or without a delay when the card is removed.

Connectivity

Devices are repeaters for other devices and should be installed within a certain maximum distance from each other.

Battery powered devices do not replay messages and are not counted when establishing Mesh continuity.

Typical maximum distance:

<u>Outdoor (line of sight):</u>	200ft
<u>Indoor (through building material):</u>	
Glass:	100ft
Drywall:	70ft
Cinderblock:	60ft
Brick:	50ft
Concrete + rebar	0ft

For design purposes a 60ft. maximum distance is appropriate for most installations.

Specifications

- Dimensions - 2.5" x 2.7" x 0.8" (63 x 69 x 20 mm)
- Recommended Card Size - 2.125" x 3.3" (55 x 85 mm) Cards not included
- Color - White
- Surface Mounted with Screws or Adhesive Tape
- Communicates with other Bluetooth Mesh Devices
- Battery model - CR2477
- Battery life - 5 years
- Warranty - 2 Years
- Buy American Act compliant

Description

The K-K0-UDB-00WH Wireless Key Card Control is wireless and requires 1 CR 2477 battery. BubblyNet Key Controls are designed to provide energy savings for the hospitality industry by ensuring that no devices are left on when the room is not in use.

Installation

The **K-K0-UDB-00WH** installation is very simple as they are surface mounted and do not require any wiring. All battery operated devices (Low Power Node) do not retransmit network messages and communicate with the network via an automatic designated device (Friend Node) which keep the LPN updated with the latest network settings. For best results, the battery operated device should be installed within 40 feet of the closest device within the Bluetooth Mesh network.

Thermostat Setback Controller | Model: C-HVA-42-DS00



Specifications

- DC Input Voltage - 12-24VDC
- Output Voltage - 12-24VDC + 0-10VDC
- Sensor Input Voltage - 12-24VDC
- Operating Temperature - -22° to 158°F (-30° to 70°C)
- 0-10V Dimming - 100mA Max
- Optional Power Supply
- Dimensions - 3.25" x 1.5" x 0.25"
(82.5 x 38 x 6.35 mm)

Description

The C-HVA-42-DS00 Thermostat Setback Controller is a Bluetooth Mesh device that activates setback temperature on any thermostat with a CCI (Closed Contact Input). Setback can be activated by vacancy sensing, a schedule or a Demand Response event.

Certifications



Installation

The installation of the Thermostat Controller is very simple. The device can be either powered by the 12VDC or 24VDC auxiliary of the thermostat or from external low voltage line. The CCO (Closed Contact Output) of the C-HVA is connected to the CCI (Closed Contact Input) input on the thermostat and all settings and logics of the C-HVA are configured via the BubblyNet app (iOS or Android).

Applications

Here's a list of popular thermostat brands and models that support CCI (Closed Contact Input) functionality:

Honeywell VisionPRO 8000 (TH8321WF1001)
Honeywell T6 Pro Z-Wave Thermostat

Ecobee SmartThermostat with Voice Control
Ecobee3 Lite

Johnson Controls TEC3000 Series Thermostat
Johnson Controls T2000 Series

Siemens RDG100 Series Thermostats
Siemens RDS120 Smart Thermostat

Schneider Electric SE8000 Series
Schneider Electric SmartX Living Space Thermostat

Trane XR524 Smart Thermostat
Trane ComfortLink II XL1050

Emerson Sensi Touch Wi-Fi Thermostat

Connectivity

Devices are repeaters for other devices and should be installed within a certain maximum distance from each other.

Typical maximum distance:	50ft
<u>Outdoor (line of sight):</u>	200ft
<u>Indoor (through building material):</u>	
Glass:	100ft
Drywall:	70ft
Cinderblock:	60ft
Brick:	50ft
Concrete + rebar	0ft

Devices with external antenna should have the antenna outside any metal box and away from metal surfaces as metal reduces connectivity.

For design purposes a 60ft. maximum distance is appropriate for most installations.