



## wiHUBB® Smart Pack

### Installation Instructions

#### Hubbell Building Automation

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#### DESCRIPTION

Hubbell Building Automation's wiHUBB® Smart Pack (SP) is a self-contained intelligent wireless power pack. It contains either one or two independently controlled outputs. The two output version can be used for Hi/Low or alternate circuit switching. An optional 0-10 VDC output is also available for controlling dimmable ballasts and LED drivers. Each wiHUBB Smart Pack can control one or more circuits and can be individually controlled or grouped with other wiHUBB devices. The wiHUBB Smart Pack also features four SmartPORTs that provide plug and play support for wiHUBB occupancy sensors, daylight sensors and manual control switches. When devices are plugged into the ports, the Smart Pack automatically and intelligently responds to the plugged in devices to provide the most energy efficient operation. The wiHUBB SP communicates securely via 900MHz radio frequency to other devices within the wiHUBB wireless self-organizing and self-healing mesh network.

#### SPECIFICATIONS

- Max Load Ratings:
  - 120VAC (SPST): 20A Incandescent, 20A Ballast (Electronic and Magnetic), 1HP motor load
  - 277VAC (SPST): 20A Ballast (Electronic and Magnetic), 1HP motor load
  - 347VAC (SPST): 20A Ballast (Electronic and Magnetic)
- Dimming Output (Optional): 0-10VDC
- RF Frequency: 902-928MHz /AES-128 Security
- RF Range: Max. Transmission Output: +20 dBm / Max Receive Sensitivity: -118 dBm
- Operating Temp: 0°C to +40°C
- Plenum rated

- Conforms with UL916 and Certified to CAN/CSA C22.2 #61010-1
- Patents Pending
- Five year limited warranty

#### PRECAUTIONS

- Read and understand all instructions before beginning installation.
- **NOTICE:** For installation by a licensed electrician in accordance with National and/or local Electrical Codes and the following instructions.
- Disconnect switch or a circuit breaker must be provided and marked as the disconnecting device.
- Disconnect switch / circuit breaker must be within reach of operator.
- **CAUTION: RISK OF ELECTRICAL SHOCK.** Turn power off at service panel before beginning installation. Never wire energized electrical components.
- **CAUTION: USE COPPER CONDUCTOR ONLY.**
- Confirm device ratings are suitable for application prior to installation. Use of device in applications beyond its specified ratings or in applications other than its intended use may cause an unsafe condition and will void manufacturer's warranty.
- Use only approved materials and components (i.e. wire nuts, electrical box, etc.) as appropriate for installation.
- **NOTICE:** Do not install if product appears to be damaged.

#### INSTALLATION

1. DO NOT DISCARD THE INCLUDED MAC ADDRESS LABELS. SEE STEP (5) BELOW.
2. Turn power off at the service panel.
3. Mount the Smart Pack (SP) to the outside of a junction box using the Smart Pack's extended ½" chase nipple. Secure to box with enclosed EMT nut. (See Figure 1)

4. Attach the antenna to the Smart Pack. Orient the antenna so that it is pointing upwards.
5. The Smart Pack has a MAC address label affixed to the outside of the unit. Place the enclosed MAC address label(s) in a log book and record the location of the Smart Pack and the circuit(s) it controls. The MAC address will be needed later during the system setup process.
6. If control devices (e.g. occupancy sensors, daylight sensor and switches) are going to be used, attach them to any available SmartPORT with the appropriate SmartPORT device cable. Similar devices (e.g. switches) may be daisy chained together from the same SmartPORT. The Smart Pack can handle up to 24 device loads.

wiHUBB Input Device	Load
Each Switch	1 Load
Each Daylight Sensor*	1 Load
Each Occupancy Sensor	4 Loads

\*Note: Only 1 Daylight Sensor per Smart Pack

7. Electrically connect the Smart Pack to the circuit(s) as shown in the Wiring Diagram below.
8. Reapply power at service panel.
9. Perform system setup and/or programming activities as applicable in accordance with the instructions of the wiHUBB Access Point or system programming device (sold separately).

### MOUNTING DIAGRAMS

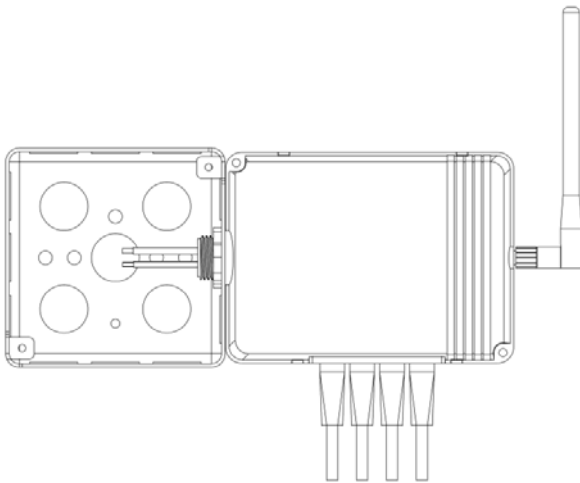


Figure 1: Smart Pack mounted to 4x4 junction box

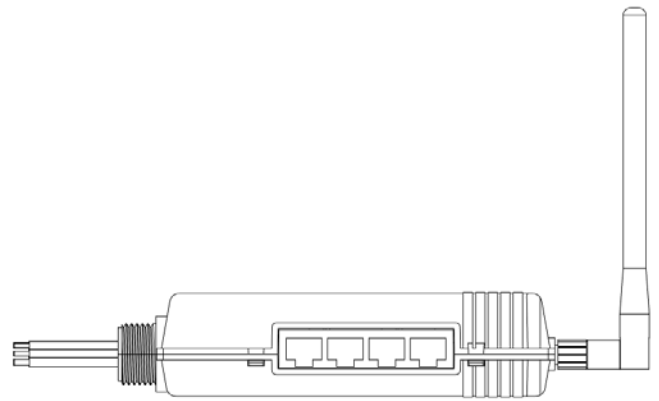


Figure 2: Smart Pack SmartPORTs – Connect control devices (e.g. occupancy sensors, daylight sensor and switches) to any available SmartPORT

### WIRING DIAGRAM

