The wiHUBB® Distributed Lighting Control system wirelessly controls indoor and outdoor applications including area/site lighting, parking garage lighting, and interior facility lighting. It is simple to install and configure, and provides a wireless network that can grow and change with your building’s needs. While installation of wired systems can be complicated and expensive, wiHUBB is simple to use, requiring minimal installation time and wiring costs. wiHUBB’s future proof design features a self-organizing and self-healing wireless mesh network.

**INTUITIVE NETWORK TECHNOLOGY**

- Peer-to-peer: All devices are peers and act as repeaters, forwarding messages to ensure message delivery
- Self-organizing: Network automatically builds itself
- Self-healing: Messages automatically reroute around failed nodes

**NETWORK PROTOCOL**

- SNAP (Synapse Network Appliance Protocol)

**RADIO FREQUENCY**

- 902-928 MHz (robust and reliable) ISM band. FCC Part 14 Certified
- Spread Spectrum Frequency Hopping
- Supported distance between wireless devices: 100 meters

**INTELLIGENT SMARTPORTS**

- Plug-and-play support for wiHUBB occupancy sensors, daylight sensors and switch stations.
- Automatically and intelligently provides the most energy-efficient operation

**SECURITY**

- Wired: HTTPS/SSL – The wiHUBB Access Point connects the client browser and wiHUBB network using Secure Socket Layer (SSL) protocol, the standard for web security authentication.
Hubbell Building Automation’s wiHUBB® Access Point is a user friendly, web-based device for commissioning and managing up to 100 devices within the wiHUBB wireless mesh network. The wiHUBB Access Point’s integrated web server provides access to the wiHUBB network using any standard web browser – no special client side PC software required.

The intuitive and easy to use Graphical User Interface (GUI) provides building owners and facility managers with the ability to schedule and control individual wiHUBB-enabled devices or groups of devices.

### PRODUCT FEATURES

- Web-based commissioning and monitoring of the wiHUBB lighting control system
- Integrated web server provides connection via standard web browsers
- Easy system access from the local network or Internet
- Intuitive and easy-to-use Graphical User Interface (GUI)
- Ability to schedule wiHUBB-enabled devices or groups of devices via standard or astronomical time functions
- Provides On/Off and dimming control of wiHUBB-enabled devices and groups of devices
- View power consumption from each device
- Robust & reliable 900MHz wireless self-organizing and self-healing mesh network
- FCC certified
- Five-year limited warranty

### ORDERING INFORMATION

| MODEL / DESCRIPTION | WIH-AP | wiHUBB Access Point |

### GENERAL SPECIFICATIONS

- **wiHUBB Network Size**: Supports up to 100 wiHUBB devices. For larger network use wiHUBB Access Point 2.0 (WIH-AP2)
- **Power Requirements**: 120 VAC - Plug-in power adapter included
- **RF Frequency**: 902 – 928MHz
- **RF Range**: Wireless Peer-To-Peer, Self-Organizing and Self-Healing Mesh Network
- **Operating Environment**: Operating Temperature: 0°C to 40°C (32°F to 104°F), Relative humidity (non-condensing): 0 to 95%
- **Construction**: Housing: Flame retardant ABS plastic, UL flame rating of 94-V0A
- **Dimensions**: 5.00”L x 7.50”W x 1.75”H
- **Weight**: 6oz
- **Color**: Black
- **Mounting**: Surface or Wall Mount
- **Certifications**: FCC Certified
- **Warranty**: Five-year limited

### DEVICE SETTINGS

<table>
<thead>
<tr>
<th>Device Setting</th>
<th>WIH-AP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model / Description</strong></td>
<td>WIH-AP</td>
</tr>
</tbody>
</table>
Hubbell Building Automation's wiHUBB® Access Point 2.0 is a user-friendly, web-based device for commissioning and managing hundreds of devices within the wiHUBB wireless mesh network. The wiHUBB Access Point's integrated web server provides access to the wiHUBB network using any standard web browser — no special client side PC software required. The intuitive and easy to use Graphical User Interface (GUI) provides building owners and facility managers with the ability to schedule and control individual wiHUBB-enabled devices or groups of devices.

**PRODUCT FEATURES**

- Web-based commissioning and management of the wiHUBB system
- Integrated web server provides connection via standard web browsers
- Easy system access from the local network or Internet
- Intuitive and easy to use Graphical User Interface (GUI)
- Ability to schedule wiHUBB-enabled devices or groups of devices
- Provides On/Off and dimming control of wiHUBB-enabled devices and groups of devices
- View power consumption from each device
- Robust & reliable 900MHz wireless self-organizing and self-healing mesh network
- FCC certified

**PRODUCT INFORMATION**

- **Model**: WIH-AP2
- **Name**: wiHUBB Access Point 2.0
- **Frequency**: 902 - 928MHz
- **Operating Environment**: Operating Temperature: 0°C to 40°C (32°F to 104°F)
  Relative humidity (non-condensing): 0 to 95%
- **Construction**: Housing: Metal enclosure
  Dimensions: Size: 8.26"L x 7.55"W x 2.44"H
  Weight: 3lb 6oz
  Color: Black
- **Certifications**: FCC Certified
- **Warranty**: Five-year limited

**GENERAL SPECIFICATIONS**

- **wiHUBB Network Size**: Supports over 100 wiHUBB devices
- **Power Requirements**: 120VAC - Plug-in power adapter included
- **RF Frequency**: 902 - 928MHz
- **RF Range**: Supported distance between wireless devices: 100 meters (328 feet)
  Maximum Transmission Output Power: +20 dBm
  Maximum Receive Sensitivity: -118 dBm
- **Construction**: Housing: Metal enclosure
  Dimensions: Size: 8.26"L x 7.55"W x 2.44"H
  Weight: 3lb 6oz
  Color: Black
- **Certifications**: FCC Certified
- **Warranty**: Five-year limited

**ORDERING INFORMATION**

- **Model**: WIH-AP2
- **Name**: wiHUBB Access Point 2.0
**wiHUBB® Smart Pack**

**WIRELESS LIGHTING CONTROLS**

Hubbell Building Automation’s wiHUBB® Smart Pack 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 High/Low or alternate circuit switching.

An optional 0-10VDC output is also available for full range dimming control of 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 SmartPORT technology that provides plug-and-play support for wiHUBB occupancy sensors and manual control switches. When devices are plugged into the SmartPORTs, the Smart Pack automatically and intelligently responds to the devices to provide the most energy-efficient operation. The wiHUBB Smart Pack communicates via 900MHz radio frequency to other devices within the wiHUBB wireless self-organizing and self-healing mesh network.

**PRODUCT FEATURES**

- Single or dual relay versions for On/Off or High/Low control
- Optional 0 – 10V interface for full range dimming control
- Plug-and-play support for wiHUBB occupancy sensors, daylight sensors and switch stations
- Device intelligently and automatically responds to sensors and switches in the most energy-efficient manner
- Schedules are held in the devices themselves – no need for a master scheduling device
- Retains data during power outages
- Robust & reliable 900MHz wireless self-organizing and self-healing mesh network
- Future-proof design – firmware updatable over the air
- FCC certified
- Five-year limited warranty

**General Specifications**

<table>
<thead>
<tr>
<th>Electrical Ratings</th>
<th>Input: 120/277VAC, 20A Max, 60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output*: 20A, Tungsten, 120VAC only</td>
<td></td>
</tr>
<tr>
<td>20A, Magnetic Ballast</td>
<td></td>
</tr>
<tr>
<td>16A, Electronic Ballast</td>
<td></td>
</tr>
<tr>
<td>1½ HP Motor @120V, 3/4 HP @277V</td>
<td></td>
</tr>
</tbody>
</table>

*For (2) relay models the maximum combined output of both relays: 20A

- Low Voltage Ports: Class 2
- Optional Dimming Interface: 0-10V, 30mA output
- For use with low-voltage, two-wire dimming ballast and LED drivers
- RF Frequency: 902 - 928MHz
- Wireless Peer-To-Peer, Self-Organizing and Self-Healing Mesh Network
- Spread Spectrum Frequency Hopping
- RF Range: Supported distance between wireless devices: 100 meters (328 feet)
- Maximum Transmission Output Power: +20 dBm
- Maximum Receive Sensitivity: -118 dBm
- Operating Environment:
  - Operating Temperature: 0°C to 40°C
  - Relative humidity (non-condensing): 0 to 95%
- Construction:
  - Housing: GSM UL Rated 94 HB Plastic
  - Plenum Rated: Complies with requirements for use in a plenum area
  - Plenum rated for external junction box mounting
- Dimensions: 5.75" L x 3.85" W x 1.30" H
- Weight: 4 oz
- Color: Gray
- Mounting: Mounts directly to an external junction box through an extended ½" chase nipple
- Patents: Patent(s) Pending
- Certifications:
  - Conforms with UL156 and Certified to CAN/CSA C22.2 No. 225-M1983
  - FCC Certified
  - IC Approved
- Warranty: Five-year limited

**Ordering Information**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>OUTPUT</th>
<th>INPUT VOLTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIH-SP</td>
<td>1B</td>
<td>1 SPST Output</td>
</tr>
<tr>
<td>1RD</td>
<td>1 SPST Output, 0-10VDC Dimming Output</td>
<td></td>
</tr>
<tr>
<td>2R</td>
<td>2 SPST Outputs</td>
<td></td>
</tr>
<tr>
<td>2RD</td>
<td>2 SPST Outputs, 0-10VDC Dimming Output</td>
<td></td>
</tr>
</tbody>
</table>

**WIH-SP 2RD-1277**
WiHUBB® Occupancy Sensors

Hubbell Building Automation’s WiHUBB® Ceiling Mount and Wall Mount Occupancy Sensors employ passive infrared, ultrasonic, and acoustic sensing technologies to turn lighting on and off based on occupancy. These sensors represent the state-of-the-art in sensor technology and are designed to provide accurate turn-on and turn-off while virtually eliminating false-aways.

The sensors feature Hubbell Building Automation’s patented IntelliDAPT® technology, which makes all the sensor adjustments automatically. Throughout the product’s lifespan, smart software analyzes the controlled area and makes digital adjustments to sensitivity and timer settings. Occupancy sensors with IntelliDAPT provide a maintenance-free install and forget operation. All WiHUBB Occupancy Sensors provide plug-and-play integration with the WiHUBB Smart Pack.

PRODUCT FEATURES

- IntelliDAPT® self-adaptive technology – no manual adjustment required
- All-digital dual technology (ultrasonic [US] and passive infrared [PIR]) sensor
- Non-volatile memory for sensor settings
- 500 to 2,000 square-foot coverage area (based on model)
- Optional isolated Form C relay with N/O + N/C outputs
- Plug and play integration with WiHUBB Smart Pack
- UL and cUL listed
- Five-year limited warranty

General Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>OMDT2, OMDT1, OMDT5, OMUS2, OMUS5, OMUS5R, OMUS1R, OMUS1R, OMUS2R, OMUS2R, OMDT5R, OMDT5, OMDT1R, OMDT2R</td>
</tr>
<tr>
<td>Sensor Type</td>
<td>Ceiling Mount, PIR and Ultrasonic, 2000 sq. ft. to 2000 sq. ft.</td>
</tr>
<tr>
<td>UltraSonic Output</td>
<td>Maximum amount of radiation allowed: 115dB @ 1 ft. from source</td>
</tr>
<tr>
<td>Frequency</td>
<td>32.768kHz or 40kHz (based on model)</td>
</tr>
<tr>
<td>Passive Infrared</td>
<td>Dual element pyrometer and 12 element cylindrical rugged lens</td>
</tr>
<tr>
<td>Form C Relay</td>
<td>Relay: N/O + N/C contacts, SPD: 500 mA rated @ 24VDC, three wire, isolated relay</td>
</tr>
<tr>
<td>Coverage</td>
<td>Ceiling mount sensor: 500 sq. ft. (Major motion) / 250 sq. ft. (Minor motion) to 2000 sq. ft. (Major motion) / 1000 sq. ft. (Minor motion) Wall mount sensor: 1000 sq. ft. (Major motion) / 800 sq. ft. (Minor motion)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>Powered by WiHUBB Smart Pack SmartPORT using plenum rated CAT5 cables (ordered separately)</td>
</tr>
<tr>
<td>Operating Environment</td>
<td>Indoor use only</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C to +40°C</td>
</tr>
<tr>
<td>Relative Humidity (non-condensing)</td>
<td>0 to 95%</td>
</tr>
<tr>
<td>Construction</td>
<td>Casing – rugged, high-impact, injection-molded plastic KJB ABS Cycolac (UV-945VA) flame class rating, UV inhibitors</td>
</tr>
<tr>
<td>Color</td>
<td>Off White</td>
</tr>
<tr>
<td>Mounting</td>
<td>Mounting base provided</td>
</tr>
<tr>
<td>Recommended Maximum Mounting Height</td>
<td>12 ft.</td>
</tr>
<tr>
<td>Color Temperature</td>
<td>Infrared: 3000K, 4000K, 5000K, 6500K</td>
</tr>
<tr>
<td>Certifications</td>
<td>UL and cUL listed</td>
</tr>
<tr>
<td>Warranty</td>
<td>Five-year limited</td>
</tr>
</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Sensor Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMDT2</td>
<td>Ceiling Mount, PIR and Ultrasonic, 2000 sq. ft.</td>
</tr>
<tr>
<td>OMDT1R</td>
<td>Ceiling Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>OMDT5</td>
<td>Ceiling Mount, PIR and Ultrasonic, 500 sq. ft.</td>
</tr>
<tr>
<td>OMDT5R</td>
<td>Ceiling Mount, Ultrasonic, 2000 sq. ft.</td>
</tr>
<tr>
<td>OMUS2</td>
<td>Ceiling Mount, Ultrasonic, 2000 sq. ft.</td>
</tr>
<tr>
<td>OMUS2R</td>
<td>Ceiling Mount, Ultrasonic, 1000 sq. ft.</td>
</tr>
<tr>
<td>OMUS5</td>
<td>Ceiling Mount, Ultrasonic, 1000 sq. ft.</td>
</tr>
<tr>
<td>OMUS5R</td>
<td>Ceiling Mount, Ultrasonic, 500 sq. ft.</td>
</tr>
<tr>
<td>OMUS1R</td>
<td>Ceiling Mount, PIR and Acoustic, 500 sq. ft.</td>
</tr>
<tr>
<td>OMUS1R</td>
<td>Ceiling Mount, PIR and Acoustic, 1000 sq. ft.</td>
</tr>
<tr>
<td>OMUS2R</td>
<td>Ceiling Mount, PIR and Acoustic, 2500 sq. ft.</td>
</tr>
<tr>
<td>LODT</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT8</td>
<td>Wall Mount, PIR and Ultrasonic, 800 sq. ft.</td>
</tr>
<tr>
<td>LODT12</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
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<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
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<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
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<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
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<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
<tr>
<td>LODT12R</td>
<td>Wall Mount, PIR and Ultrasonic, 1200 sq. ft.</td>
</tr>
</tbody>
</table>

(888) 698-3242 | Fax orders (512) 450-0864 | hubbell-automation.com
Hubbell Building Automation’s wiHUBB® Switch Stations provide manual control of the wiHUBB System. The wiHUBB Switch Stations include an On/Off switch, a High/Low/Off switch for multiple level lighting control, an On/Raise/Lower/Off switch, a 4-button Preset switch for scene control, a General–A/V switch that enables users to switch between General Lighting and Audio/Visual Lighting, a Raise/Lower dimmer switch and a Timed On switch. All wiHUBB Switch Stations provide plug-and-play integration with the wiHUBB Smart Pack.

**PRODUCT FEATURES**

- Attractive, architecturally-pleasing decorator style design
- Multiple switch options available
- All switches mount to standard single or multi-gang wall boxes
- Plug-and-play integration with wiHUBB Smart Pack
- Five-year limited warranty

**General Specifications**

- **Power Requirements**: Powered by wiHUBB Smart Pack SmartPORT using plenum rated CAT5 cables (ordered separately)
- **Operating Environment**: Indoor use only
- **Operating Temperature**: 0°C to 40°C
- **Relative humidity (non-condensing)**: 0 to 95%
- **Construction**: Housing – Rugged, high impact, injection molded plastic
- **Dimensions**: 4.2” L x 1.6” W x 1.4” D
- **Weight**: 1.6 oz
- **Color**: White, Ivory, Light Almond, Gray, and Black
- **Mounting**: Switches may be mounted individually in a single gang switch box or ganged together in a multi-gang switch box
- **Decorators-style wall plates available separately
- **Patents**: Patent(s) Pending
- **Warranty**: Five-year limited

**Ordering Information**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SWITCH TYPE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIH-SW-OO</td>
<td>On/Off Switch</td>
<td>WH White</td>
</tr>
<tr>
<td>WIH-SW-HLO</td>
<td>High/Low/Off Switch</td>
<td>IV Ivory</td>
</tr>
<tr>
<td>WIH-SW-ORLO</td>
<td>On/Raise/Lower/Off Switch</td>
<td>LA Light Almond</td>
</tr>
<tr>
<td>WIH-SW-PRESET</td>
<td>Preset/Scene Switch (4-button)</td>
<td>GY Gray</td>
</tr>
<tr>
<td>WIH-SW-GAV</td>
<td>General – A/V Mode Switch</td>
<td>BK Black</td>
</tr>
<tr>
<td>WIH-SW-RL</td>
<td>Raise/Lower Switch</td>
<td></td>
</tr>
<tr>
<td>WIH-SW-TO</td>
<td>Timed On Switch</td>
<td></td>
</tr>
</tbody>
</table>
Hubbell Building Automation’s wiHUBB® In-Fixture Module (IFM) is a self-contained intelligent wireless control module. It contains either one or two independently-controlled outputs. The two-output version can be used for High/Low or alternate ballast switching.

An optional 0-10V output is also available for full-range dimming control of dimmable ballasts and LED drivers. Each wiHUBB IFM can control one or more fixtures and can be individually controlled or grouped with other wiHUBB devices. The wiHUBB IFM communicates via 900MHz radio frequency to other devices within the wiHUBB wireless self-organizing and self-healing mesh network.

**Product Features**

- Single or dual relay versions for On/Off or High/Low control
- Optional 0 – 10V interface for full-range dimming control
- Device intelligently and automatically responds to sensors and switches in the most energy-efficient manner
- Schedules are held in the devices themselves – no need for a master scheduling device
- Monitors, measures, and records energy consumption and runtime data
- Retains data during power outages
- Robust & reliable 900MHz wireless self-organizing and self-healing mesh network
- Future-proof design – firmware updateable over the air
- Multiple antenna options available
- FCC certified
- Five-year limited warranty

**Ordering Information**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>OUTPUT</th>
<th>INPUT VOLTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIH-IM</td>
<td></td>
<td>120/277VAC, 347VAC</td>
</tr>
<tr>
<td>1RA</td>
<td>1 SPST Output</td>
<td>1277</td>
</tr>
<tr>
<td>1RDA</td>
<td>1 SPST Output, 0-10VDC Dimming Output, Anticuting Antenna</td>
<td>347</td>
</tr>
<tr>
<td>1RF</td>
<td>1 SPST Output, Fixed Antenna with 24” Extension Cable</td>
<td>1277</td>
</tr>
<tr>
<td>1RDF</td>
<td>1 SPST Output, 0-10VDC Dimming Output, Fixed Antenna with 24” Extension Cable</td>
<td>347</td>
</tr>
<tr>
<td>2RA</td>
<td>2 SPST Outputs, Anticuting Antenna</td>
<td>1277</td>
</tr>
<tr>
<td>2RDA</td>
<td>2 SPST Outputs, 0-10VDC Dimming Output, Anticuting Antenna</td>
<td>347</td>
</tr>
<tr>
<td>2RF</td>
<td>2 SPST Outputs, Fixed Antenna with 24” Extension Cable</td>
<td>1277</td>
</tr>
<tr>
<td>2RDF</td>
<td>2 SPST Outputs, 0-10VDC Dimming Output, Fixed Antenna with 24” Extension Cable</td>
<td>347</td>
</tr>
</tbody>
</table>

**General Specifications**

**Electrical Ratings (-1277 version)**
- Input: 120-277VAC, 10A Max, 60Hz
- Output: 10A, Tungsten, 120VAC only
  - 10A Magnetic Ballast
  - 5A Electronic Ballast (max each relay)
- 1/4 H.P. Motor, 120 & 277VAC
- For (2) relay models the maximum combined output of both relays: 10A

**Electrical Ratings (-347 version)**
- Input: 347VAC, 10A Max, 60Hz
- Output: 10A, Ballast
- For (2) relay models the maximum combined output of both relays: 10A

**Optional Dimming Interface**
- 0-10V, 30mA output for use with low-voltage, two-wire dimming ballast and LED drivers
- 922 - 928MHz
- Wireless Peer-To-Peer, Self-Organizing and Self-Healing Mesh Network
- Spread Spectrum Frequency Hopping

**RF Frequency**
- Supported distance between wireless devices: 100 meters (328 feet)
- Maximum Transmission Output Power: +20 dBm
- Maximum Receive Sensitivity: -118 dBm

**Operating Environment**
- Operating Temperature: -40°C to +90°C
- Relative humidity (non-condensing): 0 to 95%

**Construction**
- Housing: GSM UL Rated 94 HB Plastic

**Dimensions**
- 5.50” x 1.27” x 1.08” H

**Weight**
- 4 oz

**Color**
- Gray

**Mounting**
- Mounts inside fixture ballast cavity or housing
- Optional mounting adaptor available (p/n WIH-IM-ADAPTER) for external junction box mounting

**Certifications**
- Conforms with UL1916 and Certified to CAN/CSA C22.2 No. 205-M1983
- FCC Certified
- IC Approved

**Warranty**
- Five-year limited
Hubbell Building Automation's wiHUBB® On-Fixture Module (OFM) is a self-contained intelligent wireless control module that provides On/Off lighting control for outdoor fixtures.

Each OFM contains an integrated daylight sensor that can be used to turn lighting ON or OFF based on the amount of natural light available. Each wiHUBB On-Fixture Module can be individually controlled or grouped with other wiHUBB devices. The wiHUBB OFM communicates via 900MHz radio frequency to other devices within the wiHUBB wireless self-organizing and self-healing mesh network.

**PRODUCT FEATURES**

- On/Off outdoor lighting control
- Compatible with all lighting loads including LED drivers
- Integrated daylight sensor
- Schedules are held in the devices themselves – master scheduling device not necessary
- Retains device settings during power outages
- Robust & reliable 900MHz wireless self-organizing and self-healing mesh network
- FCC certified
- Five-year limited warranty

**GENERAL SPECIFICATIONS**

- **Input:**
  - WIH-OM-UNV: 120-347VAC, 50/60Hz
  - WIH-OM-480: 480VAC, 50/60Hz
- **Output:** 20A, Tungsten, Magnetic and Electronic Ballast
- **RF Frequency:** 902 - 928MHz
- **RF Range:**
  - Wireless Peer-To-Peer, Self-Organizing and Self-Healing Mesh Network
  - Spread Spectrum Frequency Hopping
- **Daylight Sensor:**
  - ON Level: 1 FC to 5 FC (Default: 5 FC)
  - OFF Level: 4 FC to 15 FC (Default: 6 FC)
  - ON/OFF Delay Times: 0-120 secs (Default: 60 secs)
- **Operating Environment:**
  - Operating Temperature: -40°C to +90°C (-40°F to +194°F)
  - Construction: Housing: GSM UL Rated 94 HB Plastic
- **Dimensions:**
  - 3.50"DIA x 2.275"H
- **Weight:**
  - 4 oz
- **Color:**
  - Smoked Plastic Housing
- **Mounting:**
  - Standard twist lock photo-sensor receptacle
- **Patents:**
  - Patent(s) Pending
- **Certifications:**
  - Conforms with UL1916 and Certified to CAN/CSA C22.2 No. 61010-1-04
  - FCC Certified
  - IC Approved
- **Warranty:**
  - Five-year limited

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIH-OM-UNV</th>
<th>WIH-OM-480</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT VOLTAGE</td>
<td>120-347VAC, 50/60Hz</td>
<td>480VAC, 50/60Hz</td>
</tr>
</tbody>
</table>

hubbell-automation.com
Hubbell Building Automation’s wiHUBB® Building Automation System (BAS) Gateway Interface is an external, high performance, low cost, multi-protocol gateway for providing control and access from building automation systems to HBAs wiHUBB Wireless Lighting Control System. The device provides protocol translation between wiHUBB and BAS devices using BACnet®, Metasys® N2 by JCI, and Modbus™. The wiHUBB BAS Gateway is based on the industry leading FieldServer Technologies™ ProtiCessor ProtoNode technology and is pre-configured with the wiHUBB system protocol interface.

**PRODUCT FEATURES**

- Web browser based programming
- Intuitive and easy to use Graphical User Interface (GUI)
- Device is field selectable for specific BAS protocol
- Sophisticated user account/password manager
- Integrates wiHUBB lighting control systems and Building Automation Systems (BAS)
- Supports BACnet®, Metasys® N2 by JCI, Modbus™ and LonWorks® protocols
- Automatically generates all required control points and documentation for integration with the selected protocol
- Five-year limited warranty

**General Specifications**

- **Supported wiHUBB Access Point**
  - Access Point 2.0 required (Ordered Separately)
- **Supported Serial (RS-485) Protocols**
  - BACnet MS/TP
  - Modbus RTU
  - Modbus TCP/IP
- **Power +/- Frame Ground port**
- **Ethernet -10/100 Ethernet port**
- **JCI Metasys® N2OPEN**
- **Supported Electrical Connections**
  - (1) 6 pin Phoenix Connector
  - (1) RS-485 +/- Ground port
- **Power Requirements**
  - 9-30 VDC or 12-24VAC
  - Current draw @ 12V = 240 mA
- **Operating environment**
  - Indoor use only
  - -40°C to 75°C (-40°F to 167°F)
  - Relative humidity (non-condensing): 5% to 90%
- **Dimensions**
  - 4.52" x 3.25" x 1.60" (115mm x 83mm x 41mm)
  - 4.52" x 3.25" x 1.60" (115mm x 83mm x 41mm)
- **Approvals**
  - BACnet Testing Labs (BTL) B-ASC
  - LonMark 3.4 Certified – WIH-BAS-L Version
  - TUV approved to UL 916 standard and CSA C22-2
  - RoHS Compliant
  - DNP3 Conformance Tested
  - OPC Self-Certified to Compliance
  - CE & FCC Approved
- **Warranty**
  - Five-year limited

**Ordering Information**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>wiHUBB Building Automation System Gateway Interface for Multi-Protocols - BACNET, Modbus, N2</td>
</tr>
<tr>
<td>L</td>
<td>wiHUBB Building Automation System Gateway Interface for LonWorks®</td>
</tr>
</tbody>
</table>

**Notes:**

- Metasys® is a registered trademark of Johnson Controls, Inc.
- LonWorks® is a registered trademark of Echelon Corp.
- BACnet® is a registered trademark of ASHRAE.
Hubbell Building Automation’s wiHUBB® Antennas are designed to be used with the wiHUBB In-Fixture Module and wiHUBB Smart Pack. The wiHUBB Articulating Antenna and the wiHUBB Fixed Antenna-HW are ½-wave centered DIPole antennas. The Articulating Antenna’s base allows the antenna to tilt 90 degrees and rotate 360 degrees.

The Articulating Antenna and Fixed Antenna-HW’s internal counterpoise eliminates external ground plane dependence and maximizes performance. The wiHUBB Fixed Antenna is a ¼-wave center-fed monopole antenna that utilizes a helical element to greatly reduce the physical length of the antenna housing.

**PRODUCT FEATURES**
- Multiple antenna options available
- Excellent performance
- Omni-directional pattern
- Fully weatherized
- Rugged and damage-resistant
- Five-year limited warranty

**General Specifications**
- **Antenna Type**
  - Dipole – No ground plane required: WIH-AT-AA, WIH-AT-FA-HW
  - Monopole – Requires an external proximity ground plane for proper operation: WIH-AT-FA
  - **NOTE:** 4"x4" ground plane centered around the antenna base recommended.
- **Center Frequency**
  - 916 MHz
- **Wavelength**
  - ½-wave: WIH-AT-AA, WIH-AT-FA-HW
  - ¼-wave: WIH-AT-FA
- **Voltage Standard Wave Ratio (VSWR)**
  - <2.0 typical at center: WIH-AT-AA
  - <1.9 typical at center: WIH-AT-FA-HW, WIH-AT-FA
- **Impedance**
  - 50 ohms
- **Connector**
  - RP-SMA
- **Dimensions**
  - WIH-AT-AA: 5.59" H x 0.32" W with 90° bend and 360° rotation
  - WIH-AT-FA-HW: 4.72" H x 0.32" W
- **Color**
  - Black
- **Warranty**
  - Five-year limited

**Ordering Information**

**Antennas**
<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIH-AT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA</td>
<td>Articulating Antenna, Dipole – No Ground Plane Required, 5.59&quot; H with 90° Bend</td>
</tr>
<tr>
<td>FA</td>
<td>Fixed Antenna, Monopole – Requires Ground Plane, 2.00&quot; H, with 24&quot; cable &amp; mounting hardware</td>
</tr>
<tr>
<td>FA-36</td>
<td>Fixed Antenna, Monopole – Requires Ground Plane, 2.00&quot; H, with 36&quot; cable &amp; mounting hardware</td>
</tr>
<tr>
<td>FA-48</td>
<td>Fixed Antenna, Monopole – Requires Ground Plane, 2.00&quot; H, with 48&quot; cable &amp; mounting hardware</td>
</tr>
<tr>
<td>FA-HW</td>
<td>Fixed Antenna, Dipole – No Ground Plane Required, 4.72&quot; H</td>
</tr>
</tbody>
</table>

**Antenna Cables**
<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIH-AT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAB24IN</td>
<td>Antenna Cable, 24&quot; cable (Includes mounting hardware)</td>
</tr>
<tr>
<td>CAB36IN</td>
<td>Antenna Cable, 36&quot; cable (Includes mounting hardware)</td>
</tr>
<tr>
<td>CAB48IN</td>
<td>Antenna Cable, 48&quot; cable (Includes mounting hardware)</td>
</tr>
</tbody>
</table>
Hubbell Building Automation's RJ45 Adapter and CAT5 system cables are designed to be used with HBA low voltage occupancy and daylight sensors. The adapter replaces the Quick-To-Install™ (QTI) connectors previously used by the wiHUBB® and Zone5™ occupancy and daylight sensors and enables devices to connect to HBA control modules (e.g., wiHUBB Smart Pack, Zone5 Control Module, etc.) using standard CAT5 cable.

**General Specifications**
- 4 Terminal Connections
  - Red: +24V
  - Blue: Occupancy Sensor Input
  - Yellow: Photocell/Daylight Sensor Input
  - Black: Common
- Class 2 device
- Max Cable Length Supported: 300-ft from device to control module
- Plenum Rated
- Complies with requirements for use in a plenum area
- SABIC NORYL HS2000X
- Dimensions: 2.168"L x 1.093"W x 0.995"H
- Weight: 0.8 oz
- Color: Gray
- Mounting: Adapter may be mounted using a zip-tie (not included) or with a #8 or #10 mounting screw (not included)
- Five-year limited warranty

### PRODUCT FEATURES
- Supports wiHUBB and Zone5 occupancy and daylight sensors
- Plenum rated
- Five-year limited warranty

### RJ45 Adapter

#### Ordering Information

<table>
<thead>
<tr>
<th>MODEL/DESCRIPTION</th>
<th>ORDERING INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RJ45ADAPTER</td>
<td>RJ45 Adapter</td>
</tr>
<tr>
<td>RJ45ADAPTER-10</td>
<td>RJ45 Adapter - 10 Pack</td>
</tr>
<tr>
<td>RJ45ADAPTER-50</td>
<td>RJ45 Adapter - 50 Pack</td>
</tr>
</tbody>
</table>

### CAT5 System Cables

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT5-3IN-BL</td>
<td>CAT5 Jumper Cable for wiHUBB &amp; Zone5 Lighting Control Switches, Plenum Rated, 3in, Blue</td>
</tr>
<tr>
<td>CAT5-10F-BL</td>
<td>CAT5 Cable for wiHUBB &amp; Zone5 Lighting Control Switches, Plenum Rated, 10ft, Blue</td>
</tr>
<tr>
<td>CAT5-50F-BL</td>
<td>CAT5 Cable for wiHUBB &amp; Zone5 Lighting Control Switches, Plenum Rated, 50ft, Blue</td>
</tr>
<tr>
<td>CAT5-100F-BL</td>
<td>CAT5 Cable for wiHUBB &amp; Zone5 Lighting Control Switches, Plenum Rated, 100ft, Blue</td>
</tr>
<tr>
<td>CAT5-10F-WH</td>
<td>CAT5 Cable for wiHUBB &amp; Zone5 Occupancy &amp; WASP2 Sensors, Plenum Rated, 10ft, White</td>
</tr>
<tr>
<td>CAT5-50F-WH</td>
<td>CAT5 Cable for wiHUBB &amp; Zone5 Occupancy &amp; WASP2 Sensors, Plenum Rated, 50ft, White</td>
</tr>
<tr>
<td>CAT5-100F-WH</td>
<td>CAT5 Cable for wiHUBB &amp; Zone5 Occupancy &amp; WASP2 Sensors, Plenum Rated, 100ft, White</td>
</tr>
<tr>
<td>CAT5-10F-GN</td>
<td>CAT5 Cable for wiHUBB &amp; Zone5 Daylight Sensors, Plenum Rated, 10ft, Green</td>
</tr>
<tr>
<td>CAT5-50F-GN</td>
<td>CAT5 Cable for wiHUBB &amp; Zone5 Daylight Sensors, Plenum Rated, 50ft, Green</td>
</tr>
<tr>
<td>CAT5-100F-GN</td>
<td>CAT5 Cable for wiHUBB &amp; Zone5 Daylight Sensors, Plenum Rated, 100ft, Green</td>
</tr>
<tr>
<td>CAT5-3IN-YL</td>
<td>CAT5 Jumper Cable for Zone5 Master/Row Control Switches, Plenum Rated, 3in, Yellow</td>
</tr>
<tr>
<td>CAT5-50F-YL</td>
<td>CAT5 Cable for Zone5 Master/Row Control Switches, Plenum Rated, 50ft, Yellow</td>
</tr>
<tr>
<td>CAT5-100F-YL</td>
<td>CAT5 Cable for Zone5 Master/Row Control Switches, Plenum Rated, 100ft, Yellow</td>
</tr>
</tbody>
</table>

**SPECIAL NOTES:**
1. When cutting CAT5 cable to specific lengths, the cable pin out is as follows:

<table>
<thead>
<tr>
<th>PIN NO.</th>
<th>WIRE COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WHITE with ORANGE STRIPE</td>
</tr>
<tr>
<td>2</td>
<td>ORANGE</td>
</tr>
<tr>
<td>3</td>
<td>WHITE with GREEN STRIPE</td>
</tr>
<tr>
<td>4</td>
<td>GREEN</td>
</tr>
<tr>
<td>5</td>
<td>WHITE with BLUE STRIPE</td>
</tr>
<tr>
<td>6</td>
<td>BLUE</td>
</tr>
<tr>
<td>7</td>
<td>WHITE with BROWN STRIPE</td>
</tr>
<tr>
<td>8</td>
<td>BROWN</td>
</tr>
</tbody>
</table>

SPECIAL NOTES:
1. When cutting CAT5 cable to specific lengths, the cable pin out is as follows:
Hubbell Building Automation’s wiHUBB® Daylight Sensors provide the necessary daylight-level information to the wiHUBB network. Using a photodiode element, the daylight sensor continuously measures daylight levels and sends the information to the network devices which then perform daylight switching or dimming functionality based on the amount of natural light in the area.

**PRODUCT FEATURES**

- Indoor and Outdoor models available
- Architecturally attractive design
- Open loop operation
- Foot-candle range: 3-6,000fc
- Mounts vertically or horizontally
- Color coded, plug-and-play integration with wiHUBB Smart Pack
- UL and cUL listed
- Five-year limited warranty

**General Specifications**

- **Electrical**: Four jumper-selectable foot candle ranges: 0.3-30fc; 3-300fc; 30-3,000fc; 60-6,000fc
- **Powered by**: wiHUBB Smart Pack SmartPORT using plenum rated CAT5 cables (ordered separately)
- **Operating Environment**
  - WIH-DS: Indoor use only. Operating Temperature: 0°C to +40°C
  - WIH-DS-O: Outdoor use - IP54. Operating Temperature: -40°C to +50°C
- **Construction**: Protective hard plastic cover and housing
- **Dimensions**: 2"D x 1.2"H
- **Certifications**: UL and cUL listed
- **Warranty**: Five-year limited warranty

**Ordering Information**

<table>
<thead>
<tr>
<th>MODEL / DESCRIPTION</th>
<th>WIH-DS</th>
<th>WIH-DS-O</th>
</tr>
</thead>
<tbody>
<tr>
<td>wiHUBB Daylight Sensor</td>
<td></td>
<td>wiHUBB Daylight Sensor for Outdoors</td>
</tr>
</tbody>
</table>

**Seamless Area Lighting**

wiSTAR™ is a wireless, self-powered lighting control system designed for stand-alone, indoor applications such as offices, conference rooms, break rooms, classrooms and much more. From retrofitting older structures to designing new buildings, wiSTAR is a simple way to ensure flexibility, energy savings, and cost reductions to almost any space.

**NO BATTERIES**

Utilizing the EnOcean Technology Platform, wiSTAR devices harvest energy from their surroundings—tiny changes in movement or light are all that is needed. The wall switches use the linear motion of the button push to create the power needed to send a signal to operate the lights. Sensors have tiny solar cells that convert light into the power they need to do the same thing. These solar cells work off of any light source and the converted energy is stored for operation during times with no light.

**NO WIRES**

wiSTAR devices are self-powered and require no wires to operate. These devices can be freely positioned making for versatile layouts. Compared to a wired solution, buildings can be planned, constructed and operated with greater flexibility and at a lower cost.

**NO WORRIES**

With wireless technology, wiSTAR installs easily into existing buildings without the need to completely rewire the space. This makes wiSTAR ideal for adding lighting controls to areas that have traditionally been difficult to retrofit, including historical buildings.
A simple solution for wireless control of lighting and appliances. Hubbell Building Automation’s wiSTAR™ In-line Switch Module uses radio frequency technology to communicate with other wiSTAR products and provides an amazingly simple solution for control of lighting and other electrical loads.

The module’s compact size enables flexible installation inside of or next to electrical boxes and fixtures so it can be easily wired out of sight using standard wiring practices. Simply link the module to a wiSTAR occupancy sensor, switch or light sensor and experience levels of efficiency and convenience that can only be achieved through wireless controls.

PRODUCT FEATURES

- Switches lighting or other electrical loads On/Off
- Installs inside or mounts to electrical box using threaded connector
- Easily links with wireless sensors and switches
- Five-year limited warranty

WIS-ISM

WIRELESS LIGHTING CONTROLS

General Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>120/277VAC, 50/60Hz</td>
</tr>
<tr>
<td>Maximum Load</td>
<td>General Purpose – 16A @ 120/277VAC</td>
</tr>
<tr>
<td></td>
<td>Resistive – 16A @ 120/277VAC</td>
</tr>
<tr>
<td></td>
<td>Tungsten – 160W @ 120VAC</td>
</tr>
<tr>
<td></td>
<td>Ballast – 600W @ 120VAC</td>
</tr>
<tr>
<td>Motor Load Setting</td>
<td>1.16 HP @ full load, 500W quiescent</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>1.16 HP @ full load, 500W quiescent</td>
</tr>
<tr>
<td>Inputs/Outputs</td>
<td>Flying-lead style power input wires</td>
</tr>
<tr>
<td></td>
<td>1 normally open relay</td>
</tr>
<tr>
<td></td>
<td>1 switched output wire</td>
</tr>
<tr>
<td>RF Communications</td>
<td>Radio Frequency (RF) transceiver</td>
</tr>
<tr>
<td></td>
<td>2 Buttons with LEDs for device configuration and manual control</td>
</tr>
<tr>
<td>Transmission Range</td>
<td>EnOcean 902 MHz</td>
</tr>
<tr>
<td>Dimensions</td>
<td>2.78” x 1.65” x 1.1” D</td>
</tr>
<tr>
<td>Mounting</td>
<td>3.2 oz.</td>
</tr>
<tr>
<td>Environment</td>
<td>Indoor use only</td>
</tr>
<tr>
<td></td>
<td>32° to 131° F (0° to 55° C)</td>
</tr>
<tr>
<td></td>
<td>20% to 95% relative humidity</td>
</tr>
<tr>
<td>Agency Compliance</td>
<td>Conforms to UL Std. 244A and 1472</td>
</tr>
<tr>
<td></td>
<td>Certified to CANS/CSA Std. C22.2 NO 184</td>
</tr>
<tr>
<td></td>
<td>FCC: 52V/STM/300U</td>
</tr>
<tr>
<td></td>
<td>IC: 5713A-STM300U</td>
</tr>
<tr>
<td>Warranty</td>
<td>Five-year limited</td>
</tr>
<tr>
<td>Interoperable Products / EEPROMs</td>
<td>(EnOcean Equipment Profiles)</td>
</tr>
<tr>
<td></td>
<td>Rocker Pad Switch (F6-02-02)</td>
</tr>
<tr>
<td></td>
<td>Key Card Switch (PK-04-01)</td>
</tr>
<tr>
<td></td>
<td>Window handle (PK-10-01)</td>
</tr>
<tr>
<td></td>
<td>1BS Single Input Contact (DS-00-01)</td>
</tr>
<tr>
<td></td>
<td>Temperature Sensor, 0° to 40° C (AS-02-01)</td>
</tr>
<tr>
<td></td>
<td>Occupancy Sensor (AS-07-01)</td>
</tr>
<tr>
<td>Ordering Information</td>
<td>WIS-ISM-WH</td>
</tr>
<tr>
<td></td>
<td>WIS-ISM-WH</td>
</tr>
<tr>
<td>MODEL</td>
<td>wiSTAR In-line Switch Module, 902MHz, White</td>
</tr>
</tbody>
</table>

WIS-ISM-WH

wiSTAR™ In-line Switch Module
A simple solution for wireless control through any standard outlet. Controlling lamps and electronics in any room is simple when you use Hubbell Building Automation’s wiSTAR™ Plug-In Switch Module.

The module uses radio frequency technology to communicate wirelessly with other wiSTAR devices and provides convenient control of lighting and electronic appliances. Simply plug the module into any standard outlet and then plug the lamp or other electronic device into the receptacle on the opposite end. Link the module to a wiSTAR switch or occupancy sensor for convenient wireless control.
Hubbell Building Automation’s wiSTAR™ Wireless Light Sensor has built-in solar cells that draw on available ambient light to power itself and can operate for up to 7 days in total darkness. Batteries are not required for continuous operation. The Light Sensor is designed to operate in closed loop applications for light levels from 0 to 94.8 footcandles (0 to 1020 LUX).

This is a revolutionary product for daylight harvesting applications to meet energy saving initiatives. Optimally place the sensor in the desired lighted space, pair it with a receiver for load control and your installation is complete. The self-powered wireless light sensor design also overcomes the placement and coverage challenges of traditional light sensors. They may be mounted wherever needed without moving or installing new wiring or conduit.

### PRODUCT FEATURES
- Daylight Harvesting with both switched and dimmed capabilities
- Self-Powered & Self-Charging
- No Batteries or External Power Required
- Quick Charge Time to Operation
- Up to 7 days of Stored Power
- Five-year limited warranty

### General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>902 MHz</td>
</tr>
<tr>
<td>Photocell</td>
<td>0 to 94.8FC (0 to 1020 LUX)</td>
</tr>
<tr>
<td>Transmission Interval</td>
<td>Upon &gt; 20FC (200LUX) changes</td>
</tr>
<tr>
<td>Minimum Light Required</td>
<td>4FC (40 LUX)</td>
</tr>
<tr>
<td>Solar Cell Operating Range</td>
<td>4 to 100FC (40 to 1020 LUX)</td>
</tr>
<tr>
<td>Minimum Charge Time to Begin Operation</td>
<td>1 minute @ 20FC (200 LUX)</td>
</tr>
<tr>
<td>Full Charge Time</td>
<td>~8 hours @ 100FC (1000 LUX)</td>
</tr>
<tr>
<td>Maximum Charge Time</td>
<td>3 hours per 24 hours @ 20FC (200 LUX)</td>
</tr>
<tr>
<td>Operation Life at Full Charge</td>
<td>7 Days</td>
</tr>
<tr>
<td>Optional Battery Life</td>
<td>10 Years</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>32°F to 104°F (0°C to 40°C)</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-4°F to 158°F (-20°C to 70°C)</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>0% to 95%, non-condensing</td>
</tr>
<tr>
<td>Usage</td>
<td>Indoor use only</td>
</tr>
<tr>
<td>Mounting Height</td>
<td>8-12 feet</td>
</tr>
<tr>
<td>Warranty</td>
<td>Five-year limited</td>
</tr>
</tbody>
</table>

### Ordering Information

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIS-DSM-WH</td>
<td>wiSTAR Daylight Sensor Module, 902MHz, White</td>
</tr>
</tbody>
</table>
Saving energy without sacrificing comfort can be effortless with occupancy based controls. Hubbell Building Automation’s wiSTAR™ Ceiling Mounted Occupancy Sensor enables a new level of energy saving control for rooms, hallways and other common areas. The occupancy sensor uses radio frequency technology to communicate wirelessly with other wiSTAR devices to turn off lights and electrical loads when a space has been unoccupied for a set period of time.

Because the sensor is wireless there is no need to run additional wiring and installation can be completed in a matter of minutes. The sensor is self-powered by harvesting light energy, eliminating the need for periodic battery changes. The clean, contemporary styling makes the sensor an attractive addition to any décor.

PRODUCT FEATURES

• Sends messages to other devices when motion is detected
• Harvests light energy to power the sensor
• Mounts easily on any ceiling or material
• Works with other sensors for enhanced occupancy tracking
• Built-in tests to confirm operation
• Alternate power supply options for extreme low light conditions
• Five-year limited warranty

WIS-OSC

Top view of sensor coverage based on 10ft mounting height

Side view of sensor coverage based on 10ft mounting height

WIRELESS OCCUPANCY SENSING

NO BATTERIES OR POWER REQUIRED

TOP VIEW OF SENSOR COVERAGE BASED ON 10FT MOUNTING HEIGHT

PRODUCT FEATURES

• Sends messages to other devices when motion is detected
• Harvests light energy to power the sensor
• Mounts easily on any ceiling or material
• Works with other sensors for enhanced occupancy tracking
• Built-in tests to confirm operation
• Alternate power supply options for extreme low light conditions
• Five-year limited warranty

WIS-OSC

General Specifications

Power Supply: Indoor light energy harvesting
(RF Communications: EnOcean 902 MHz
Transmission Range: 80ft. (25m)
Motion Detection Range: 40ft. (25m) diameter
Minimum Operating Light: 50 lux (for auto-off only)
Startup Charge Times (from empty):
  Linking = 4 min @ 100 lux
  1.5 min @ 300 lux
  Motion Transmission = 6 min @ 100 lux
  3.5 min @ 200 lux
Note: Bright light or battery can be temporarily used to shorten initial startup charge times
Charge Time to Full: 9 hrs @ 200 lux
Sustaining Charge Time: 3 hours per 24 hours @ 200 lux
Motion Transmission Interval:
  40 sec @ 200 lux - 300 sec @ 50 lux
Heartbeat Transmission Interval:
  120 - 600 seconds (based on real-time charge rate)
  120 sec @ 200 lux - 600 sec @ 50 lux
Operating Life in Darkness: 48 hours (after full charge)
EnOcean Equipment Profile (EEP): A05-07-02
Dimensions: 6.5”H x 2.36”W x 1.47”D
Mounting Height: 7 - 10 feet (recommended)
Agency Compliance:
  FCC: SZV-EOSC05
  IC: 5713-EOSC05
Warranty: Five-year limited
Interoperable Products / EEPs:
  Product Name (EEP #)
  (EnOcean Equipment Profiles)
  Rocker Pad Switch (F6-02-02)
  Key Card Switch (F6-04-01)
  Window handle (F6-10-00)
  185 Single Input Contact (D5-00-01)
  Temperature Sensor (3m - 40°C) (A5-02-03)
  Occupancy Sensor (A5-07-01)
  Contact, single input (A5-30-01)
  Central Gateway (A5-38-08)

Ordering Information

WIS-OSC-WH

Model: WIS-OSC-WH wiSTAR Occupancy Sensor - Ceiling Mount, 902MHz, White
WIRELESS OCCUPANCY SENSING
NO BATTERIES OR POWER REQUIRED

WIRING DIAGRAM

PRODUCT FEATURES
• Sends messages to other devices when motion is detected
• Harvests light energy to power the sensor
• Mounts flush on wall or in a corner
• Works with other sensors for enhanced occupancy tracking
• Interchangeable lenses for tailored sensor coverage
• Built-in tests to confirm operation
• Alternate power supply options for extreme low light conditions
• Five-year limited warranty

Power Supply
Indoor light energy harvesting
(No supplemental battery or 2-wire connector for external power or remote solar cell)

RF Communications
EnOcean 902 MHz

Transmission Range
80 ft. (25m)

Motion Detection Range
50 ft. wide angle lens / 100 ft. long range lens

Minimum Operating Light
50 lux (for auto-off only)

Startup Charge Times (from empty)
Linking = 4 min @ 100 lux
1.5 min @ 200 lux
Motion Transmission = 6 min @ 100 lux
3.5 min @ 200 lux
Light/Walk Test Mode = 5.5 hrs @ 200 lux

Charge Time to Full
9 hrs @ 200 lux

Sustaining Charge Time
3 hours per 24 hours @ 200 lux

Motion Transmission Interval
60 - 300 seconds (based on real-time charge rate)
60 sec @ 200 lux - 300 sec @ 50 lux

Heartbeat Transmission Interval
120 - 300 seconds (based on real-time charge rate)
120 sec @ 200 lux - 300 sec @ 50 lux

Operating Life in Darkness
48 hours (after full charge)

EnOcean Equipment Profile (EEP)
A05-07-02

Dimensions
5.83" H x 2.52" W x 1.8" D

Mounting Height
6 - 8 feet (recommended)

Agency Compliance
FCC: SZV-EOSC05
IC: 5713-EOSC05

Warranty
Five-year limited

Orders are subject to acceptance by Manufacturer. Prices subject to change without notice. Specifications are subject to change without notice. WIS-OSW

Wiring Diagram

General Specifications

Power Supply
Indoor light energy harvesting
(No supplemental battery or 2-wire connector for external power or remote solar cell)

RF Communications
EnOcean 902 MHz

Transmission Range
80 ft. (25m)

Motion Detection Range
50 ft. wide angle lens / 100 ft. long range lens

Minimum Operating Light
50 lux (for auto-off only)

Startup Charge Times (from empty)
Linking = 4 min @ 100 lux
1.5 min @ 200 lux
Motion Transmission = 6 min @ 100 lux
3.5 min @ 200 lux
Light/Walk Test Mode = 5.5 hrs @ 200 lux

Charge Time to Full
9 hrs @ 200 lux

Sustaining Charge Time
3 hours per 24 hours @ 200 lux

Motion Transmission Interval
60 - 300 seconds (based on real-time charge rate)
60 sec @ 200 lux - 300 sec @ 50 lux

Heartbeat Transmission Interval
120 - 300 seconds (based on real-time charge rate)
120 sec @ 200 lux - 300 sec @ 50 lux

Operating Life in Darkness
48 hours (after full charge)

EnOcean Equipment Profile (EEP)
A05-07-02

Dimensions
5.83" H x 2.52" W x 1.8" D

Mounting Height
6 - 8 feet (recommended)

Agency Compliance
FCC: SZV-EOSC05
IC: 5713-EOSC05

Warranty
Five-year limited

Orders are subject to acceptance by Manufacturer. Prices subject to change without notice. Specifications are subject to change without notice. WIS-OSW

Wiring Diagram

General Specifications

Power Supply
Indoor light energy harvesting
(No supplemental battery or 2-wire connector for external power or remote solar cell)

RF Communications
EnOcean 902 MHz

Transmission Range
80 ft. (25m)

Motion Detection Range
50 ft. wide angle lens / 100 ft. long range lens

Minimum Operating Light
50 lux (for auto-off only)

Startup Charge Times (from empty)
Linking = 4 min @ 100 lux
1.5 min @ 200 lux
Motion Transmission = 6 min @ 100 lux
3.5 min @ 200 lux
Light/Walk Test Mode = 5.5 hrs @ 200 lux

Charge Time to Full
9 hrs @ 200 lux

Sustaining Charge Time
3 hours per 24 hours @ 200 lux

Motion Transmission Interval
60 - 300 seconds (based on real-time charge rate)
60 sec @ 200 lux - 300 sec @ 50 lux

Heartbeat Transmission Interval
120 - 300 seconds (based on real-time charge rate)
120 sec @ 200 lux - 300 sec @ 50 lux

Operating Life in Darkness
48 hours (after full charge)

EnOcean Equipment Profile (EEP)
A05-07-02

Dimensions
5.83" H x 2.52" W x 1.8" D

Mounting Height
6 - 8 feet (recommended)

Agency Compliance
FCC: SZV-EOSC05
IC: 5713-EOSC05

Warranty
Five-year limited

Orders are subject to acceptance by Manufacturer. Prices subject to change without notice. Specifications are subject to change without notice. WIS-OSW

Wiring Diagram

General Specifications

Power Supply
Indoor light energy harvesting
(No supplemental battery or 2-wire connector for external power or remote solar cell)

RF Communications
EnOcean 902 MHz

Transmission Range
80 ft. (25m)

Motion Detection Range
50 ft. wide angle lens / 100 ft. long range lens

Minimum Operating Light
50 lux (for auto-off only)

Startup Charge Times (from empty)
Linking = 4 min @ 100 lux
1.5 min @ 200 lux
Motion Transmission = 6 min @ 100 lux
3.5 min @ 200 lux
Light/Walk Test Mode = 5.5 hrs @ 200 lux

Charge Time to Full
9 hrs @ 200 lux

Sustaining Charge Time
3 hours per 24 hours @ 200 lux

Motion Transmission Interval
60 - 300 seconds (based on real-time charge rate)
60 sec @ 200 lux - 300 sec @ 50 lux

Heartbeat Transmission Interval
120 - 300 seconds (based on real-time charge rate)
120 sec @ 200 lux - 300 sec @ 50 lux

Operating Life in Darkness
48 hours (after full charge)

EnOcean Equipment Profile (EEP)
A05-07-02

Dimensions
5.83" H x 2.52" W x 1.8" D

Mounting Height
6 - 8 feet (recommended)

Agency Compliance
FCC: SZV-EOSC05
IC: 5713-EOSC05

Warranty
Five-year limited

Orders are subject to acceptance by Manufacturer. Prices subject to change without notice. Specifications are subject to change without notice. WIS-OSW
Take the first step toward significant energy savings. Hubbell Building Automation's wiSTAR™ Key Card Switch is one of the simplest, most economical ways to save energy through occupancy based control of lighting, HVAC and miscellaneous electric loads.

The switch is self-powered and the simple act of inserting or removing the card generates enough kinetic energy to send a wireless signal to other wiSTAR devices within the room. To operate the switch, guests simply insert their key card in the slot when they enter the room and then remove it when they leave. The key card switch is wireless and can be installed in minutes without having to drill into the wall or run additional wiring. The switch features a clean contemporary styling, making it an attractive addition that’s sure to compliment any décor.

**PRODUCT FEATURES**

- Determines occupancy based on guest room key being inserted or removed
- Harvests kinetic energy from the card action - no batteries
- Installs easily in new or existing rooms - no wiring
- Transmits room occupancy status wirelessly
- Five-year limited warranty

**PRODUCT SPECIFICATIONS**

- **Model**: WIS-KCS-WH
- **WiSTAR Key Card Switch, 902MHz, White**

**General Specifications**

- **Power Supply**: Mechanical energy harvesting (power is generated by the motion of key card moving in or out)
- **Inputs/Outputs**: Slot for standard hotel key card (2.125" W x 3.375" H x 0.034" D)
- **RF Communications**: EnOcean 902 MHz
- **Transmission Range**: 86ft. (25m)
- **RF Transmission**: On key card insertion or removal
- **EEP (EnOcean Equipment Profile)**: F6-04-01
- **Installation**: Surface mounted on wall (using included mounting screws)
- **Dimensions**: 4.72” H x 3.8” W x 0.43” D
- **Weight**: 3.5 oz. (99 g)
- **Environment**: Indoor use only
  - 32° to 131° F (0° to 55° C)
  - 5% to 95% relative humidity (non-condensing)
- **Agency Compliance**: FCC: 5713A-PTM33XU
  - IC: SZV-PTM33XU
- **Warranty**: Five-year limited

**Interoperable Products / EEPs**

- Product Name (EEP #)
  - Rocker Pad Switch (F6-02-02)
  - Key Card Switch (F6-04-01)
  - Window handle (F6-10-00)
  - 1BS Single Input Contact (D5-00-01)
  - Temperature Sensor, 0 to 40° C (A5-02-01)
  - Occupancy Sensor (A5-07-01)
  - Contact, single input (A5-30-01)
  - Central Gateway (A5-38-08)

**Ordering Information**

- **Model**: WIS-KCS-WH
- **WiSTAR Key Card Switch, 902MHz, White**

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Self-powered wireless controls are simple to install. Hubbell Building Automation’s wiSTAR™ Single and Double Rocker Switches use EnOcean energy harvesting technology to communicate wirelessly with other wireless devices and provide convenient control of lighting, temperature and miscellaneous electric loads.

The rocker switches are self-powered and never require batteries. The action of pressing the rocker generates enough energy to send a wireless signal to other wiSTAR devices. Use them in conjunction with sensors and controls to maximize efficiency and provide a level of comfort and convenience you cannot achieve with traditional switches. The rocker switches feature a clean contemporary styling, making them an attractive addition that’s sure to complement any décor.

### PRODUCT FEATURES

- User interface for controlling lighting loads
- Harvests energy from linear motion - no batteries
- Transmits unique RF message each time pressed or released
- Five-year limited warranty

### General Specifications

- **Power Supply**: Mechanical Energy Harvesting (power is generated by the motion of pressing the switch)
- **Inputs/Outputs**: 1 or 2 button rocker switch options
- **RF Communications**: EnOcean 902 MHz
- **Transmission Range**: 80ft. (25m)
- **RF Transmission**: On press and release of rocker button
- **EEP (EnOcean Equipment Profile)**: F6-02-02
- **Dimensions**:
  - Single: 4.95”H x 3.21”W x 0.74”D
  - Double: 4.95”H x 4.52”W x 0.72”D
- **Weight**:
  - Single: 3.99oz.
  - Double: 5.3oz.
- **Mounting**:
  - Surface mounted on wall (using included mounting screws)
  - Can also be flush mounted by optional use of electrical wall box or low-voltage ring
- **Environment**:
  - Indoor use only
  - 32° to 131° F (0° to 55° C)
  - 5% to 95% relative humidity (non-condensing)
- **Agency Compliance**:
  - FCC: SZV-PTM210U
  - IC: 5713A-PTM210U
- **Warranty**: Five-year limited
- **Inter-operable Products / EEPs**:
  - EnOcean Equipment Profiles:
    - Rocker Pad Switch (F6-02-02)
    - Key Card Switch (F6-04-01)
    - Window Handle (F6-10-00)
    - 1BS Single Input Contact (D5-00-01)
    - Temperature Sensor, 0 - 40° C (A5-02-05)
    - Occupancy Sensor (A5-07-01)
    - Contact, single input (A5-30-01)
    - Central Gateway (A5-38-08)

### Ordering Information

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<tr>
<td>WIS-DRP-WH</td>
<td>wiSTAR Double Rocker Pad, 902MHz, White</td>
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</table>
Smart Street Lighting

wiSCAPE™ uses a combination of fixture modules and gateways to create a wireless street lighting controls solution. wiSCAPE components are adaptable to ALL fixture types and ALL voltages in new and retrofit street lighting environments. These components create a secure peer-to-peer, self-organizing and self-healing mesh network infrastructure that allows for distances of 300ft or 1,000ft between devices*.

*Dependent on choice of module.

wiSCAPE FIXTURE MODULES
- LED
- Induction
- MH-HPS-LPS
- Inandescent
- Halogen, and Plasma.

wiSCAPE GATEWAYS
wiSCAPE Gateways are used to combine up to 1000 wiSCAPE Fixture Modules into a single wireless network. Although each Fixture Module is functionally autonomous, the Gateway also acts as an access point through which the modules can be managed, monitored, and metered through wiSCAPE View™ software.

wISCAPERACKETS
wISCAPERACKET uses a combination of fixture modules and gateways to create a wireless street lighting controls solution. wISCAPERACKET components are adaptable to ALL fixture types and ALL voltages in new and retrofit street lighting environments. These components create a secure peer-to-peer, self-organizing and self-healing mesh network infrastructure that allows for distances of 300ft or 1,000ft between devices*.

*Dependent on choice of module.

wiSCAPE FIXTURE MODULES
- Dry contact inputs for low voltage devices.
- Dry contact output for driving external contactors.
- 0-10V output control for Pre-set levels, Ramp speed (Up-Down), Smooth transition, Minimum and Maximum Dimming levels, Minimum On-time before dimming, and Demand/ Response load shedding settings.
- Unlimited number of schedules based on Sunrise/Sunset, Time of Day, Day of Week, Predefined periods and Holidays.
- Real latitude and longitude location information.
- Unique serial number bar code.
- Works with all lighting fixtures types including: LED, Induction, MH-HPS-LPS, Inandescent, Halogen, and Plasma.

THREE SERVER OPTIONS
There are three ways to host wiSCAPE on a server:
1. Local PC tied directly to the Gateway(s).
2. Local PC connected to remote Gateway(s) via the Internet.
3. Cloud based server connected to remote Gateway(s) via the Internet.

wISCAPERACKETS REDUCES THE TOTAL AMOUNT OF ENERGY USED BY STREET LIGHTS
One of the best ways to save energy from street lighting is to dim or switch fixtures off when they are not needed. wiSCAPE offers a variety of features to facilitate this:
- Photocells, Light Sensors, Standard Time Clock, Astronomical Time Clock
- Lights can be dimmed* or switched based on daynight levels, time schedules and/or sunrise and sunset. For example, streetlights could be turned on 15 minutes before sunset, dimmed to 50% at 11 p.m., set to full at 5 a.m., and turn off 15 minutes after sunrise.

wISCAPERACKETS LIGHTS STREETS BASED ON ACTIVITY LEVEL
Some street locations have such random use at night that trying to set light levels based on a schedule is nearly impossible.
- Photocells, Light Sensors, Standard Time Clock
- Light levels can be dimmed* or switched based on daynight levels, time schedules and/or sunrise and sunset. For example, streetlights could be turned on 15 minutes before sunset, dimmed to 50% at 11 p.m., set to full at 5 a.m., and turn off 15 minutes after sunrise.

wISCAPERACKETS ALLOWS FOR STREAMLINED AND ECONOMICAL STREET LIGHTING NETWORKS
Keeping city fixtures in working order is costly. Oftentimes, maintenance departments are unaware of an outage until they get a call or incur the cost of sending maintenance crews out each night to visually identify lamp failures.

wISCAPERACKETS ASSISTS IN MINIMIZING LIGHT POLLUTION
Light pollution is an issue that's gaining greater attention across the country as more and more cities are passing Dark Sky legislation.

wISCAPERACKETS IS AFFORDABLE TO INSTALL
The cost of the fix is always a concern as municipalities and utilities have limited budgets to work with.

wISCAPERACKETS ENABLES MUNICIPALITIES TO PAY FOR ACTUAL ENERGY CONSUMED
Because streetlights are not always metered, cities are often charged a tariff per streetlight currently installed. While this method is rarely accurate due to fixtures requiring maintenance at any given time, it’s difficult to prove exactly how much energy was really consumed.

wISCAPERACKETS performs every function municipal engineers and control electricians are looking for:

- Monitoring and Metering
- Cost Effective Installation

wISCAPERACKETS REPORTS
wiSCAPE allows the city to monitor and meter each fixture's energy use and create an energy usage report for an individual fixture, a zone or the entire city.

wISCAPERACKETS ALLOWS FOR CONTROL DOWN TO THE GRANULARITY OF A SINGLE FIXTURE AND CAN UTILIZE A COMBINED STRATEGY OF DIMMING*, SCHEDULING, AND MOTION CONTROL TO DIM OR TURN LIGHTS OFF WHEN THEY ARE NOT NEEDED.

wISCAPERACKETS is a Wireless Street Lighting Controls Solution that enables utilities and municipalities to manage, monitor and meter each individual streetlight throughout the city.
Hubbell Building Automation's wiSCAPE™ Gateway is used to combine up to 1000 wiSCAPE Fixture Modules into a single wireless network. Although each Fixture Module is functionally autonomous, the Gateway acts as an access point through which the modules can be managed, monitored and metered through wiSCAPE View™ software.

Using the robust 2.4GHz ISM (Industrial, Scientific and Medical) radio band, the wiSCAPE Gateway's wireless control technology adapts easily to complex automation situations for quick, simple and economical commissioning and operation.

PRODUCT FEATURES

- Scales to any network size
- Solid-state disks withstand temperature, shock and vibrations
- Surge protected
- Module/Gateway ratio: 1000 modules per Gateway
- Fail-safe operation—defaults to photocell control
- Gateways are in NEMA 4X (IP66) cabinets
- Data storage supports up to six months of rolling data storage
- 128-bit AES encryption

General Specifications

- Voltage: 120-240VAC; 50/60Hz
- Power consumption: 18 watts
- Fused supply: 5 amp
- Surge protection: 190 Joules (10,000 surge current rating measured using industry standard 8/20 µSec wave)
- 50/60 HZ, Consumption: max 26 VA
- Ambient temperature range: -40°F to 185°F (-40°C to 85°C)
- Relative Humidity: Up to 99% non-condensing (fully waterproof enclosure NEMA 4x)
- Dimensions: 12" x 14" x 6"H
- Construction: Compression molded fiberglass reinforced polyester construction with flush, solid/opaque cover IP66 Rated
- Certifications: FCC/IC Certified, RoHS Compliant
- Warranty: Five-year limited warranty

Ordering Information

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Accessory

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<td>WIR-STPDNXFMR-277</td>
<td>wiSCAPE Gateway 277V to 120V Stepdown</td>
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<tr>
<td>WIR-STPDNXFMR-347</td>
<td>wiSCAPE Gateway 347V to 120V Stepdown</td>
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Hubbell Building Automation’s wiSCAPE™ Fixture Module is a bidirectional wireless RF device that allows an individual fixture to be managed, monitored and metered. The wiSCAPE Module can switch loads of up to 3 Amps and is available for the following voltages: 120, 208, 277 and 347VAC. Built-in 0-10V outputs also allow fixtures to be dimmed. The Fixture Module works with all fixture types including: LED, Induction, MH-HPS-LPS, Incandescent, Halogen and Plasma. Digital and analog inputs and outputs make sending and receiving signals from additional control devices simple and easy.

The wiSCAPE Fixture Module drastically simplifies control and automation of projects, especially in retrofit environments and challenges the legacy world of wired-systems. wiSCAPE wireless control technology adapts easily to complex automation situations for quick, simple and economical commissioning.

**PRODUCT FEATURES**

- Inputs for low-voltage switch, motion and photo sensor
- Outputs 0-10V for dimming ballasts (Sink+Source)
- Dry contact output for driving external contactors
- Bidirectional wireless RF Mesh communications
- Individual addresses providing unique serial numbers
- Can work as a fully autonomous system, or remotely managed from a central system. No central panel required
- Multi-level grouping and multiple scenarios
- Adjustable minimum and maximum dimming levels
- Programmable state after blackout, with peak shaving options
- Blink warning and override before scheduled lights off
- Both locally and remotely controllable with status and metering reporting
- Smart daylight harvesting and motion sensing functions, with occupied and unoccupied levels including a lamp saver function
- Demand response (load shedding) and emergency mode ready

**General Specifications**

- **Voltage**: 120, 208-240, 277, 347; 50/60Hz
- **Maximum Load Amperage**: 3 amps
- **Phase-cut Dimming**: Continuous retroactive trailing-edge
- **Output Status Monitoring**: Standard feature
- **Power Metering**: Amperage - Voltage - Power (2% accuracy), Power Factor, Cumulative Energy - Burn-time counters
- **Options**: Hi-Lux Control for HID (Core & Coil) Dual-capacitors
- **0-10V Dimming**: For all types of 0-10V drivers & ballasts requiring either to be sunk (up to 200mA) or sourced (20mA standalone or higher select source)
- **Standard Inputs**: 3 Digital: ex: Motion sensor and switch top/bottom buttons (max : 48V) + 1 Analog 0-10V
- **Additional Outputs**: 2 Digital (Open-collector up to 48V—max: 20 mA total)
- **Standard Radio**: Up to 300 ft between modules
- **Long Range Radio**: Up to 1000 ft between modules
- **Ambient Temperature Range**: -40°F to 185°F (-40°C to +85°C)
- **Relative Humidity**: 0% to 100% non-condensing (fully waterproof packaging option)
- **Certifications**: ETL 3192455, UL508 & CSA C22.2 No.14, U.S. FCC Part 15.247 : OUR-XBEE / OUR-XBEE UL94V-0 Flame retardant ABS or Epoxy molding
- **Warranty**: Five-year limited

**Ordering Information**

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<td>WIR-RML</td>
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Hubbell Building Automation’s wiSCAPE™ Fixture Module is a bidirectional wireless RF device that allows an individual fixture to be managed, monitored and metered. The wiSCAPE Module can switch loads of up to 6 Amps and is available for 480VAC. Built-in 0-10V outputs also allow fixtures to be dimmed. The Fixture Module works with all fixture types including LED, Induction, MH-HPS-LPS, Incandescent, Halogen and Plasma. Digital and analog inputs and outputs make sending and receiving signals from additional control devices simple and easy.

wiSCAPE Fixture Modules communicate wirelessly over a robust 2.4GHz ISM (Industrial, Scientific and Medical) certified meshed radio signal.

The wiSCAPE Fixture Module drastically simplifies control and automation of projects, especially in retrofit environments and challenges the legacy world of wired-systems. wiSCAPE wireless control technology adapts easily to complex automation situations for quick, simple and economical commissioning.

PRODUCT FEATURES

- Inputs for low-voltage switches, motion and photo sensors
- Outputs 0-10V for dimming ballasts (Sink+Source)
- Dry contact output for driving external contactors
- Bidirectional wireless RF Mesh communications
- Individual addresses of unique serial numbers
- Can work as a fully autonomous system, or remotely managed from a central system. No central panel required
- Multi-level grouping and multiple scenarios
- Adjustable minimum and maximum dimming levels
- Programmable state after blackout, with peak shaving options
- Blink warning and override before scheduled lights off
- Both locally and remotely controllable with status and metering reporting
- Smart daylight harvesting and motion sensing functions, with occupied and unoccupied levels including a lamp saver function
- Demand response (load shedding) and emergency mode ready

wiSCAPE™ 480V Fixture Module

WIRELESS STREET LIGHTING CONTROLS

**General Specifications**

- **Voltage:** 480V, 60Hz
- **Maximum Load Amperage:** 6 amps
- **Phase-cut Dimming:** Continuous retroactive trailing-edge
- **Output Status Monitoring:** Standard feature
- **Power Metering:** Ampereage - Voltage - PF, Cum. Energy - Burn-time counters
- **Options:** Hi-Lux Control for HID (Core & Coil) Dual-capacitors
- **Standard Inputs:** 3 Digital: ex: Motion sensor and switch top/bottom buttons (max. 48V) + 1 Analog 0-10V
- **Additional Outputs:** 2 Digital (Open-collector up to 48V—max. 20 mA total)
- **Standard Radio:** Up to 300 ft between modules
- **Long Range Radio:** Up to 1000 ft between modules
- **Ambient Temperature Range:** -40°F to 185°F (-40°C to +85°C)
- **Relative Humidity:** 0% to 100% non-condensing (fully waterproof packaging option)
- **Certifications:** ETL 3192455, UL508 & CSA C22.2 No. 14
- **U.S. FCC Part 15.247:** OUR-XBEE / OUR-XBEE
- **UL94V-0 Flame retardant ABS or Epoxy molding
- **Warranty:** Five year limited

**Ordering Information**

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<td>WIR-RML</td>
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Hubbell Building Automation’s wISCAPE™ PLC is a communication interface between the wISCAPE Keypad and the wISCAPE Wireless Street Lighting Controls which allows for the activation of sophisticated lighting scenarios.

**PRODUCT FEATURES**

- Weatherproof NEMA 4/IP66 enclosure.
- Can be wired up to 75’ from the wISCAPE Keypad.
- Communicates wirelessly with wISCAPE Fixture Modules.

**General Specifications**

- **XB RF mesh Signal**: 2.4GHz – 902.15.4 ISM
- **Supply Voltage**: 120, 208, 240, 277 or 347 VAC.
- **PLC Central Carrier Frequency**: 36MHz
- **Operating Temperature**: 4°F to 122°F (-20°C to +50°C)
- **Construction**: Rugged design enabling installation in a weatherproof NEMA 4 enclosure.
- **Dimensions**: 8” L x 8” W x 4” H
- **Warranty**: Five-year limited

**Ordering Information**

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Hubbell Building Automation’s wiSCAPE View™ is an intuitive software platform that can configure, manage, monitor and meter a wiSCAPE Lighting Control System, all in one easy to use software platform. Using wiSCAPE View the user is able to remotely access multiple wiSCAPE Gateways individually from one location.

- Secured multi-concurrent users login and tractability
- Module configuration and control
- Creation/Editing of the user-defined library of Scenarios - Commands - Groups - Schedules
- Database management
- Historical data logging of power use, data acquisition modules (pulse counters, analog and digital sensors and instruments) and history of commands and scenarios

**General Specifications**

- Data storage: MySQL database
- Operating System: Windows Server 64-bit
- Desktop Browser and Settings: Any browser, no special setting
- Reporting Tools: Exports to Excel and CSV Formats

Hubbell Building Automation’s wiSCAPE Enterprise™ is an add on module to wiSCAPE View that allows the user to conveniently combine all of their Gateways into a single database. wiSCAPE Enterprise allows single sign-on and access to all installed Gateways and provides all of the functionality of wiSCAPE View.

Hubbell Building Automation’s wiSCAPE BACnet software module allows easy interfacing of wiSCAPE control system and modules with the Building Automation Systems BACnet.

BACnet was chosen as the integration platform, for integrating with traditional building automating systems, while promoting the use of intelligent addressable wireless controls & sensors that do not require dedicated control wiring, making it ideal for both new and retrofit projects.

Hubbell Building Automation’s wiSCAPE-APP provides control of wiSCAPE devices including:

- Wireless intelligent relays
- Wireless RF controls
- BACnet objects
- Preconfigured Scenarios

The interface is web based so it doesn’t require any installation on the client device and is always up to date, reducing maintenance and support cost to a minimum.

- Being linked to the same SQL database as the wiSCAPE Building Automation System, changes are immediately reflected on all clients connected.

**General Specifications**

- APP Requirements: wiSCAPE View software. Server running Microsoft IIS. Internet or local area network connection.
- Ordering Information:
  - WIR-SS: WIR-SS

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The wiSCAPE™ Gateway Cellular Modem is a secure Ethernet gateway ideal for customers requiring 24/7 broadband connectivity. With simple installation and configuration requirements, the Gateway Cellular Modem is designed to handle robust, fixed applications requiring broadband communication speeds and bandwidth.

PRODUCT FEATURES

- Persistent 3G Network
- Connectivity
- Low Power Consumption
- Compact Size for Easy Integration
- Rugged Aluminum Case
- Remote Management and Configuration
- Five-year limited

The Gateway Cellular Modem is a secure Ethernet gateway ideal for customers requiring 24/7 broadband connectivity. With simple installation and configuration requirements, the Gateway Cellular Modem is designed to handle robust, fixed applications requiring broadband communication speeds and bandwidth.

PRODUCT FEATURES

- Persistent 3G Network
- Connectivity
- Low Power Consumption
- Compact Size for Easy Integration
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- Remote Management and Configuration
- Five-year limited

General Specifications

<table>
<thead>
<tr>
<th>Security</th>
<th>IPsec/VPN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GRE Tunneling</td>
</tr>
<tr>
<td></td>
<td>Events Reporting Engine</td>
</tr>
<tr>
<td></td>
<td>Routing Protocols</td>
</tr>
<tr>
<td></td>
<td>Highly Configurable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Technology</th>
<th>HSUPA with fallback to:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HSDPA, UMTS, EDGE, GPRS, GSM</td>
</tr>
<tr>
<td></td>
<td>EV-DO Rev. A with fallback to:</td>
</tr>
<tr>
<td></td>
<td>CDMA, EV-DO Rev. 0, CDMA 1x, CDMA 1x-95</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bands</th>
<th>Tri-Band UMTS/HSDPA/HSUPA, 850, 1900, 2100 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quad-Band GPRS/EDGE, 850, 900, 1800, 1900 MHz</td>
</tr>
<tr>
<td></td>
<td>Dual-Band EV-DO Rev. A, 450-900, 1900 MHz</td>
</tr>
<tr>
<td></td>
<td>Quad-Band UMTS/HSDPA/HSUPA, 850, 900, 1900, 2100 MHz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Host Interfaces</th>
<th>Ethernet: 10/100 BASE-T RJ-45</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>USB Type B 5-pin mini</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Antenna Connections</th>
<th>Cellular - 50 Ohm SMA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Receive Diversity - 50 Ohm SMA</td>
</tr>
</tbody>
</table>

| I/O Ports | 2 |

<table>
<thead>
<tr>
<th>LED Indicators</th>
<th>Network</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Signal</td>
</tr>
<tr>
<td></td>
<td>Power</td>
</tr>
</tbody>
</table>

| Operating Temperature | -22°F to 158°F (-30° to +70°C) |
| Storage Temperature   | -40°F to 185°F (-40° to +85°C) |
| Dimensions            | 3.0"W x 1.1"H x 3.7"L |
| Weight                | 7.1 oz |

<table>
<thead>
<tr>
<th>Certifications</th>
<th>FCC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RoHS</td>
</tr>
<tr>
<td></td>
<td>PTCRB</td>
</tr>
<tr>
<td></td>
<td>CE</td>
</tr>
</tbody>
</table>

Warranty Five-year limited

Ordering Information

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIR-MOD-GPRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPRS Call Modem add-on option for wiSCAPE Gateways</td>
<td></td>
</tr>
</tbody>
</table>
The wiSCAPE™ Modem allows the user to wirelessly connect their notebook or desktop PC to the wiSCAPE wireless street lighting system via their computer’s USB port. The wiSCAPE Modem allows the user to remotely manage, monitor, and meter their wiSCAPE System through wiSCAPE View™ software on their computer.

**PRODUCT FEATURES**

- Low Power Consumption
- Compact Size for Easy Integration
- Rugged Case
- Remote Management and Configuration
- Five-year limited

**PRODUCT FEATURES**

- **Operational Voltage**: Powered from USB port
- **Connector Type**: USB 2.0 Type B
- **Communication Type**: Wireless RF MESH 2.4GHz – 862.15-4 ISM FCC compliant (FCC ID: OUR-XBEE)
- **Range**: RF Mesh - 300 ft per hop
- **LED Indicators**:
  - Green = Power OK
  - Yellow = Transmitting
  - Red = Receiving
- **Dimensions**: 4”L x 2.25”W x 1.5”H
- **Warranty**: Five-year limited

**General Specifications**

<table>
<thead>
<tr>
<th></th>
<th>WIR-MODEM with USB Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>WIR-MODEM</td>
</tr>
</tbody>
</table>

**Ordering Information**
Hubbell Building Automation’s wiSCAPE™ Photo Sensor provides the necessary daylight-level information to the wiSCAPE Fixture Module. Using a photodiode element, this sensor continuously measures daylight levels and sends the information to the module. The applicable foot-candle range is selected by using a jumper beneath the front cover.

**PRODUCT FEATURES**

- Interfaces with Energy Management Systems
- Foot-candle range: 50 - 750FC
- Mounts horizontally
- UL and cUL listed
- California Title 24 Compliant
- Five-year limited warranty

### General Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>+/-1% at 70°F (21°C) Derated to +/-5% at 130°F or 50°F (-18°C to 49°C)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>13°F to 140°F (-11°C to 60°C)</td>
</tr>
<tr>
<td>Sensor Type</td>
<td>Blue-enhanced photodiode</td>
</tr>
<tr>
<td>Sensor Ranges</td>
<td>50-750FC</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>24VDC</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>10V full output</td>
</tr>
<tr>
<td>Output Offset</td>
<td>0VDC or 1VDC - total darkness</td>
</tr>
<tr>
<td>Wiring</td>
<td>Three conductors 18-gauge standard cable</td>
</tr>
<tr>
<td></td>
<td>Red: Pos. DC input</td>
</tr>
<tr>
<td></td>
<td>Black: DC common</td>
</tr>
<tr>
<td></td>
<td>Yellow: Output to EMS</td>
</tr>
<tr>
<td>Certifications</td>
<td>ETL/UL 916 Listed</td>
</tr>
<tr>
<td></td>
<td>Title 24 Listed</td>
</tr>
<tr>
<td></td>
<td>RoHS compliant</td>
</tr>
<tr>
<td>Warranty</td>
<td>Five-year limited</td>
</tr>
</tbody>
</table>

### Ordering Information

**MODEL**

- **DLPCO**  
  Outdoor Photocell Sensor; 50 - 750FC
The wiSCAPE™ Keypad is designed to be integrated with wiSCAPE Wireless Street Lighting Controls. The compact and versatile design features 6 buttons, each capable of being programmed to activate sophisticated lighting scenarios. In conjunction with wiSCAPE enabled fixtures, a scenario could include a single fixture or entire groups of fixtures.

As with all wiSCAPE Fixture Modules, the keypad is configured through wiSCAPE View™ software. Once configured, the keypad will not require the presence of a computer or central controller on the network.

PRODUCT FEATURES

- 6 programmable buttons for a total of 6 possible scenarios
- Sends any user-programmable commands to an unlimited number of receivers
- Compact design to be easily installed in standard electrical boxes
- Fits standard Decorator Style wallplate (sold separately)
- Low power consumption
- LED Feedback on each button
- Reprogrammable over the air
- Five-year limited warranty

General Specifications

<table>
<thead>
<tr>
<th>Operating Voltage</th>
<th>15-30VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
<td>Standard single gang electrical box</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1.6”W x 4.0”H x 1.7”D</td>
</tr>
<tr>
<td>Other Requirements</td>
<td>Requires appropriate wiSCAPE PLC for system operation</td>
</tr>
</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIR-SW-KP6-WH</td>
<td>wiSCAPE Keypad</td>
</tr>
</tbody>
</table>

Hubbell Building Automation’s wiSCAPE™ WASP2™ Motion Sensor is specifically designed for ON/OFF control of street lighting. The motion sensor is also available for low-mount applications when using the appropriate lens. The sensor is available in end-mount and surface-mount versions with either single or dual outputs.

PRODUCT FEATURES

- Digital Passive Infrared (PIR) sensor
- Supported maximum mounting heights:
  - High mount lens: up to 30 ft outdoors; 45 ft indoors
- Multiple (single and dual) output versions
- Unique Smart Cycling™ for improved lamp life
- End-mount and surface-mount versions
- Withstands low temperature and conforms to IP65 water-tight standards
- UL and cUL listed
- Five-year limited warranty
General Specifications

Power Requirements
- Low Voltage sensors: 24VDC

User Interface
- (1) Twelve pin DIP switch

Time Delay
- Primary: 8-second test mode - 4, 8, 16 and 30 minute timeouts
- Secondary: Can be disabled (switches off or primary timer) - 30, 60 and 90 minute timeouts

Passive Infrared
- Dual element pyrometer and spherical Fresnel lens designed for robust detection of a walking person.
- When used with program start ballast, a 1-2 second delay from occupancy detection to lamp turn-on may be experienced.

Daylight Sensor
- Coverage Range: 30 – 2500FC
- End mount sensor: Downward and upward looking daylight sensors (Direction selectable via DIP switch)
- Surface mount sensor: Downward looking daylight sensor only

Interchangeable Lens Options
- Lens options: (Sensors sold separately – not included with sensor module)
  - Low Mount/High Mount
  - Indoor/Outdoor
  - Coverage: 360°, 180°, Aisle, Half Aisle

Operating Environment
- Relative humidity (non-condensing): 0% to 95%
- Low Temperature/Water-tight/Indoor-Outdoor version: -40° to 149°F (-40° to 65°C)

Construction
- Sensor Module and Lens Assembly – high impact, injection-molded plastic

Dimensions
- 4.0" DIA x 1.5" H

Weight
- 7 oz.

Color
- White, Black and Gray

Mounting
- End mount sensor: Mounts directly to end of fixture through extended ½" chase nipple
- For deeper body fixtures, an optional Extender Adapter (available separately) positions the sensor flush or below the bottom of the reflector for a full field-of-view.
- Surface mount sensor: Mounts directly to fixture or junction box via (2) 1.25" stainless steel screws and locking nuts

Certifications
- Conforms to UL STD 508, UL STD 244A
- Conforms to IP65 (Low Temperature/Water-tight version)

Warranty
- Five-year limited

Ordering Information

<table>
<thead>
<tr>
<th>SENSOR MODEL</th>
<th>MOUNTING</th>
<th>INPUT VOLTAGE</th>
<th>LOW-TEMP/WATER TIGHT</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSP</td>
<td>EM</td>
<td>24VDC Low Voltage</td>
<td>LWO - Low Temp/Water Tight/Indoor/Outdoor</td>
<td>Blank/White/BK/Black/GY</td>
</tr>
</tbody>
</table>

Example: WSP EM 24V LWO – Wasp End Mount Sensor, 24V Low Temp/Water Tight, White

For appropriate lens options please reference WASP2 Occupancy Sensor Lens Specification Sheet.