PowPak™ Plug-in Appliance Module

A retrofit device that reduces energy usage simply

For use with:
- Monitor
- Printer
- Lamp
- Fan

PowPak Plug-in appliance module
(shown at 75% actual size)
PowPak™ Plug-in Appliance Module is a device that controls electric appliance and lighting loads to reduce wasted energy.

**Benefits**

- Reduce wasted energy to meet green initiatives
- Easy plug-in installation, no tools required
- Simple button press programming
How it saves energy

- Switches plug loads off when not in use through manual and/or automatic controls. Plug loads such as task lighting, computer monitors, and printers account for 10-15% of commercial energy use.¹
- Turns off loads automatically after occupants leave a space, using Radio Powr Savr Occupancy/Vacancy Sensors
- Empowers employees to join the energy-savings initiative and reduce wasted energy in their personal spaces with the Pico wireless control

Features

- Responds to the same sensor and/or Pico that controls the Maestro® Wireless switches and dimmers in the space
- Easy to install and maintain
- Lutron patented Softswitch® technology prevents the relay contacts from arcing, extending the module’s life
- UL listed to UL244A Appliance Control and UL508 Industrial Control standards

Applications

**Office Buildings**
- Open office cubicles
- Private offices

**Education Facilities**
- Computer labs

**Hospitality**
- Guestrooms
- Business Centers
Components and innovative technologies

**PowPak™ Plug-in Appliance Module**
- Turns off desk lamps and vampire loads such as printers and monitors when not in use when paired with Pico® wireless controls and/or Radio Powr Savr™ Occupancy/Vacancy Sensors
- Communicates via Clear Connect™ RF technology
- Maximum load: 15 A general purpose
- Also available with three-receptacles

**PowPak Plug-in Lamp Dimmer**
- Dim incandescent/halogen, or configure to switch non-dimmable, table or floor lamps up to 300 W
- Light level can be adjusted as part of lighting scenes through Pico wireless controls
- Also available with three receptacles

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**Clear Connect RF technology**

Clear Connect RF technology is a restricted, radio frequency band that all Lutron wireless products use to communicate. This ensures no other devices interfere with Lutron lighting systems.

The result: flawless communication, every time.

**2.4 GHz:**
- Telephones
- Wi-fi networks
- Bluetooth devices
- Wireless security cameras

**434 MHz:**
- Lutron Clear Connect RF technology devices

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In crowded frequency bands – high potential for RF interference

In low traffic, restricted frequency band – ensures flawless communication
**Pico Wireless Controls**
- Use as a tabletop control, a hand-held remote, or mount as a wall control
- On/off control for appliance and switched lighting loads
- Configurations available for use with Plug-in Lamp Dimmer

**Radio Powr Savr Occupancy/Vacancy Sensors**
- Turn loads on when space is occupied and off when space is vacant
- Available in several coverage-area configurations for various applications (ceiling, wall, corner, and hallway mount options)
- Vacancy models available to meet California Title 24 Section 119(j) requirements

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**Occupancy/vacancy sensors feature Lutron exclusive XCT™ technology**

- **Eliminates false shut-offs**, ensuring that lights stay on when the space is occupied.
- **Eliminates false trips** from background noise and other common interferences.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Other Passive Infrared (PIR) sensors</th>
<th>Lutron XCT technology*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typing</td>
<td>Undetected False shut off</td>
<td>Detected Lights on</td>
</tr>
<tr>
<td>Reading</td>
<td>Undetected False shut off</td>
<td>Detected Lights on</td>
</tr>
<tr>
<td>Major movement</td>
<td>Detected Lights on</td>
<td>Detected Lights on</td>
</tr>
</tbody>
</table>

*Dependant on sensor location and settings.
How to use the PowPak™ Plug-in Appliance Module

Control options:
- Sensor
- Manual

Single device control

Multiple device control

Fan

Monitor

Printer

Lamp

Fan
Strategies

**Occupancy sensing** automatically turns devices on when occupants enter a space and off when they vacate the space.

**Vacancy sensing** automatically turns devices off when occupants vacate the space; requires occupant to manually turn devices on.

**Personal control** gives occupants the ability to turn all devices on or off.

**Typical cost per square foot: private office (150 square feet)**\(^2\)

**Option 1**

\[
\text{PowPak Plug-in Appliance Module} + \text{Radio Powr Savr™ Occupancy/Vacancy Sensor} = \$1.15 \text{ (US) per square foot}
\]

**Option 2**

\[
\text{PowPak Plug-in Appliance Module} + \text{Pico® Wireless Control} = \$0.78 \text{ (US) per square foot}
\]

\(^1\) Energy Information Administration, 2003 Commercial Energy Consumption Survey, released September 2008

\(^2\) Based on estimated contractor pricing
### Ordering information

<table>
<thead>
<tr>
<th>Model number</th>
<th>Control type</th>
<th>List Price (US)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PowPak™ Plug-in Appliance Module</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRF2-15APS-1-XX</td>
<td>1-receptacle plug-in appliance module</td>
<td>$99</td>
</tr>
<tr>
<td>MRF2-15APS-3-XX</td>
<td>3-receptacle plug-in appliance module</td>
<td>$99</td>
</tr>
<tr>
<td><strong>PowPak™ Plug-in Lamp Dimmer</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRF2-3PD-1-XX</td>
<td>1-receptacle plug-in lamp dimmer</td>
<td>$99</td>
</tr>
<tr>
<td>MRF2-3PD-3-XX</td>
<td>3-receptacle plug-in lamp dimmer</td>
<td>$99</td>
</tr>
<tr>
<td><strong>Pico® Wireless Controls</strong></td>
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<td></td>
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<tr>
<td>MRF2-2B-LXX</td>
<td>Pico wireless control with on/off</td>
<td>$56</td>
</tr>
<tr>
<td>MRF2-3BRL-LXX</td>
<td>Pico wireless control with on/off, raise lower and favorite</td>
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<tr>
<td>L-PED1-XX</td>
<td>Pedestal for Pico wireless control</td>
<td>$60</td>
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<tr>
<td><strong>Radio Powr Savr™ Wireless Occupancy/Vacancy Sensors</strong></td>
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<td></td>
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<tr>
<td>LRF2-OCRBP-XX</td>
<td>Ceiling-mount occupancy/vacancy sensor</td>
<td>$130</td>
</tr>
<tr>
<td>LRF2-VCRBP-XX²</td>
<td>Ceiling-mount vacancy-only sensor</td>
<td>$130</td>
</tr>
<tr>
<td>LRF2-OWLB-P-WH</td>
<td>180° wall-mount occupancy/vacancy sensor</td>
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<tr>
<td>LRF2-WLBP-WH²</td>
<td>180° wall-mount vacancy-only sensor</td>
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<tr>
<td>LRF2-OKLP-WH</td>
<td>90° corner-mount occupancy/vacancy sensor</td>
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<tr>
<td>LRF2-VKLP-WH²</td>
<td>90° corner-mount vacancy-only sensor</td>
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<tr>
<td>LRF2-OHLBP-WH</td>
<td>Hallway occupancy/vacancy sensor</td>
<td>$130</td>
</tr>
<tr>
<td>LRF2-VHLBP-WH²</td>
<td>Hallway vacancy-only sensor</td>
<td>$130</td>
</tr>
</tbody>
</table>

1 Partial list – additional control types and configurations are available to meet the needs of every application.
2 Vacancy models meet California Title 24 section 119(j) requirements