



EcoSwitch

Energy-Efficient Light Switch

The EcoSwitch provides the aesthetics of a standard light switch with advanced energy management capability.

Intelligent Lighting Control for Increased Efficiency

With the appearance of a traditional light switch and powerful energy management capabilities, the EcoSwitch is an essential addition to a comprehensive building efficiency strategy. Turning lights off uses less energy than leaving lights on when a room is unoccupied. The EcoSwitch stops the flow of electricity to lights; conserving electricity that would have been wasted on an unoccupied space. The EcoSwitch is simple; it operates as a standard light switch, yet it has sophisticated energy management and reporting capability. The EcoSwitch is ideal to improve a facility's efficiency and sustainability efforts.

Installed in new construction or using the wiring already in place in existing buildings, the flush mounted EcoSwitch energy management light switch can control lighting with commands from an EcoSmart thermostat or occupancy sensor, a Property Management System, a schedule, or a manual command. The EcoSwitch has the ability to significantly reduce energy consumption while operating seamlessly as a normal light switch.

Innovative Metering and Reporting

The EcoSwitch reports detailed statistics back to the EcoCentral cloud-based facility management platform to allow the monitoring of accurate energy usage details and real-time savings information. The EcoSwitch has a built-in true power meter to monitor cost, voltage, amperage, kWh, and other metrics at 15-minute intervals. To help a property perform a detailed energy usage analysis, the EcoSwitch provides detailed, time-stamped data to the EcoCentral management platform, including:

- kWh consumption by time of use price [Off-peak, Mid-peak, On-peak]
- Occupancy time by time of use price [Off-peak, Mid-peak, On-peak]
- Energy usage separated by occupied and unoccupied states
- Occupied/unoccupied time in seconds since installation
- Power Factor

Viewing data and generating reports is simple with EcoCentral, Telkonet's cloud-based facility management platform. Users can analyze raw data, share pre-compiled charts and graphs, and monitor real-time savings information to determine the kWh saved with the EcoSmart system. Additionally, EcoCentral manages the data the EcoSwitch collects as well as providing a platform for room and facility control. From any web-connected laptop, tablet, or smartphone, users can monitor the status of the EcoSwitch, launch events such as a load shed, or command the EcoSwitch to stop or start the flow of power to lights.



Overview

Paddle Switch [shown] or On/Off Buttons
Compatible with all EcoSmart products

Key Features

Built-in flash memory for data logging
Compact size fits standard electrical box
Integrates with Property Management Systems

Technical Specifications

Supports On/Off Cluster in ZigBee® HA Profile
ZigBee® Home Automation (HA) Compliant
Supports Simple Metering in ZigBee® Smart Energy Profile
ZigBee® 802.15.4 Wireless
Operating Temperature: 32°-104°F (0°-40°C)

Standards

ZigBee® Certified
FCC Certified
UL Certified

Load Capability

Resistive Load - 15A (1500 W)
Motor Load - 1/2 HP
Tungsten Load - 600 W

EcoSwitch Meter Parameters

As an energy meter, the EcoSwitch collects and stores detailed energy usage data.

Global Data

Voltage

Resolution: 0.01V

Minimum, Maximum, Average

Time of Use Pricing

Off-peak, Mid-peak, On-peak

Outlet State

Per outlet, statistics for occupied and unoccupied states

Energy - kWh

Resolution: Watt Second (kWh/3600000)

Pricing: Off-peak, Mid-peak, On-peak

Current

Resolution: 0.01A

Maximum, Average

Power Factor

Minimum, Average

Occupancy

Occupied/unoccupied time in seconds since installation

Occupancy time by time of use price

Interval Data (Logged Every 15 Minutes)

Voltage

Reading at Time Stamp, Minimum, Maximum, Average

Occupancy Status

Light Level

Switch Relay States

Occupancy

Occupied/Unoccupied Time

Occupancy Time by Time of Use Price

Current

Reading at Time Stamp, Minimum, Maximum, Average

Power Factor

Reading at Time Stamp, Average

Power

Resolution: 0.01W

Reading at Time Stamp, Average Individual readings for occupied/unoccupied state for each outlet and each Time-of-Use Price

For more information contact Evolutix today.

Visit www.evolutix.net