



EcoView

In-Room Occupancy Sensor

Precision in-room occupancy detection via wired or wireless occupancy sensor.

Precision Occupancy Detection in Demanding Environments

The EcoView is a Passive Infrared (PIR) Detector, which evaluates both body temperature and motion to ensure accurate occupancy detection. The EcoView also includes an integrated photometer light level sensor, which is used to determine the amount of light in the space it is covering. This light level is used in the EcoView's internal process for occupant detection and increases the accuracy of occupant detection in low-light conditions.

Because the EcoView is an advanced PIR with an onboard microprocessor, it is able to store specific settings affecting its mode of operation. These advanced settings are software selectable and include a wide range of sensitivity options as well as certain motion filters. The motion filters can compensate for unavoidable site conditions such as convection currents, vibration, and frequency interference that would trigger false occupancy messages on most PIR sensors.

Designed to Blend into a Room

The EcoView features a unique flat face and circular shape, which hides the traditional PIR prism lens. This unique look prevents tampering that often occurs in public areas or hotel rooms. Its internal lens provides an overlapping coverage pattern allowing a single sensor to cover a large area.

A simple mounting bracket allows the sensor to be placed in the most optimum location to view the room from either a wall or the ceiling. The fire-rated enclosure allows for simple installation and maintenance with a twist-lock housing, an included security screw prevents tampering. An internal LED may be enabled for testing the sensor's range and coverage in different positions and can be left on permanently for public spaces when occupancy sensing should be clearly displayed. Available in custom Pantone colors, the EcoView will blend into any environment.

Installation with Communication

The EcoView is designed to fit seamlessly into the EcoSmart Suite of products. It utilizes the same optional ZigBee communication available on both the EcoWave and EcoInsight thermostat products. If ZigBee communication is enabled, the EcoView may be linked with the thermostat for occupancy detection with the push of a button. Up to eight EcoView sensors may be linked together and work with EcoWave or EcoInsight thermostats. This provides the option to canvas an area as simple as a single hotel room or as complex as a large multi-story residence.

For new construction, the EcoView may be directly connected with 3-conductor wire to an EcoSource or EcoInsight thermostat. In this setup, the ZigBee communication is not required and provides considerable cost savings. The EcoView may be powered via DC-source over two of the three conductors, or may be battery powered with



Overview

Visual appearance to resemble in-room smoke detectors

Onboard PIR motion sensor for more accurate room occupancy checks

802.15.4 compatible for more robust control over your property

Key Features

Easily installed

Patented Recovery Time™ Technology

Communicates wirelessly with other EcoSmart products to ensure the highest energy savings

Interface available for door contacts

Available in any Pantone color to match your property's color scheme

Availability

The EcoView is available now

two AA batteries. A battery-powered sensor will typically have a two-year battery life under normal conditions.

EcoSmart Night Delay Technology

When controlling HVAC with an occupancy-based thermostat, one of the largest challenges is ensuring accurate detection of a sleeping occupant. With EcoSmart Night Delay Technology, the thermostat uses EcoView's built-in PIR sensor in conjunction with its optical sensor for measuring the amount of light in a room. Over time, the unit will learn the average light level of the room and detect when the space is above or below that light level. Using this information, the EcoSmart thermostat can make a better occupancy decision, ensuring guest comfort throughout the night. This combination of an advanced PIR sensor, a light-level sensor, and advanced occupancy logic makes the EcoView sensor one of the most reliable occupancy sensors available.

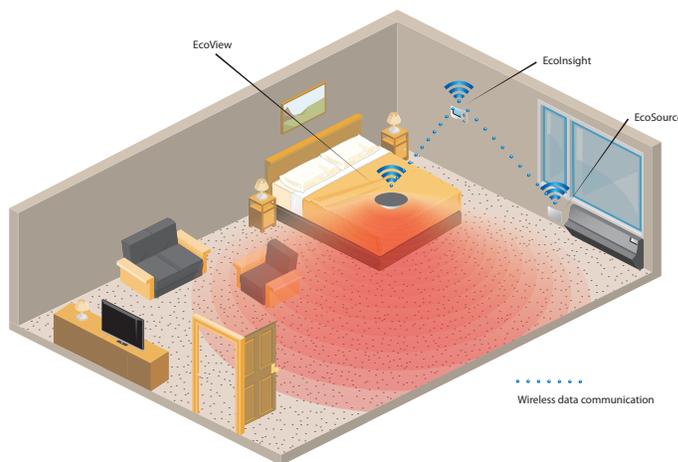
EcoSmart Patented RecoveryTime™

When the EcoView is linked with either an EcoWave or EcoInsight thermostat, it enables the use of Telkonet's patented Recovery Time™ technology. Using the EcoView occupancy sensor, the thermostat will constantly calculate how far each room temperature can drift from the occupant's preferred setting to maximize energy savings and still return within the preset recovery time. Every room is continuously and independently evaluated to determine its energy efficient temperature based on environmental characteristics.

Through the constant monitoring of the HVAC unit's ability to drive the temperature and real-time adjustment of setback temperature, rooms are never excessively hot or cold when an occupant returns to the room. The room will always be just minutes away from an occupant's desired comfort setting, unlike fixed setback systems where the temperature is forced to a single setpoint in all rooms. Recovery Time™ technology delivers room-by-room, occupant-by-occupant savings while maximizing occupant comfort.

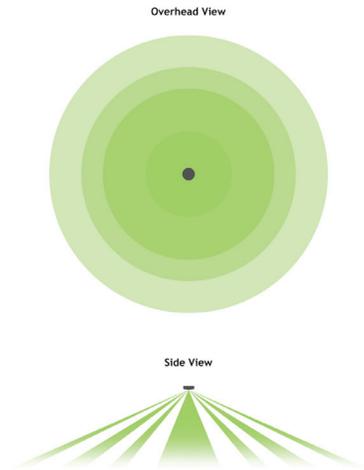
Proven Savings

Telkonet's energy efficiency products have been proven in over 200,000 rooms across Hospitality, Education, Military, and Health Care markets. The power and intelligence behind the EcoView make it an ideal fit for a number of applications, including residential and office complex space. New opportunities for efficiency in HVAC are constantly uncovered with the wide array of support the EcoView provides.



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EcoView Coverage Pattern



Technical Specifications

Zigbee/802.15.4 Wireless
2.4Ghz ISM band
Radio range: 100-300 ft
1mW (0dBm)
Operational voltage: 3VDC
2 AA batteries (2 years life)

Options

Battery power
Direct line-voltage

Standards

ZigBee Certified
FCC Certified
UL Certified
Field upgradable firmware over 802.15.4