

ENERGY PATROL SYSTEM™

PRODUCT DESCRIPTION

US Energy Solutions, Inc. is a leader of infrared sensor-based Hotel Energy Management products. We provide direct sales, installation, service and purchasing options to hotels in the U.S., and internationally. We provide innovative Energy and Time Management Solutions to the hospitality industry, school classrooms, college dorm rooms, offices and conference centers.

OUR PRIMARY PRODUCT

- The Energy Patrol System™ decreases wasteful HVAC consumption 35% to 45%, while accelerating guest service and staff efficiency. In the lodging industry, heating and cooling guestrooms is the largest expense, therefore, it is not necessary to pay for utilities not required by guests.
- The Energy Patrol System™ determines the physical presence of guests by detecting infrared body heat, therefore, it can't be fooled by movement of drapes or ceiling fans. Guests have complete control of the rooms temperature while in the room. Guest can select heat or cool and set the temperature utilizing the existing HVAC unit and thermostat.
- When guests leave the room for a specified period, Energy Patrol takes control from the normal thermostat and resets the room temperature to energy conserving levels pre-selected by hotel management. Energy consumption and costs are reduced 35% to 45% without adverse effects on guest comfort and convenience.
- The Energy Patrol System™ connects to and reduces consumption on all hotel HVAC systems, including PTAC Units, Heat Pumps, Split Systems, and Fan Coil Units of any voltage.
- The Energy Patrol System™ is designed to be **TRANSPARENT** to guests and easy to understand, maintain, and operate by non-technical personnel. In existing hotels our technicians have installed 15-20 rooms in one day. All wiring (a small, 4-pair phone cable) is hidden and room décor is not disturbed.



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OPTIONAL PRODUCTS & FEATURES OF ENERGY PATROL

- The **OCCUPANCY IDENTIFIER (OI)** feature allows staff members to know if the room is unoccupied from the hallway, eliminating guest disturbances and improving staff efficiency.
- The **REMOTE OCCUPANCY IDENTIFIER (ROI)** extends the above OI feature to a map-like panel at the front desk, housekeeping office, security, or fire control station to provide instantaneous, real-time information on which rooms are physically occupied. ROI requires and utilizes one spare pair of telephone wires from each room to the telephone equipment room for easy installation.
- **Patrol Stat** is a digital hotel thermostat that is easy to use. It allows guests to see the actual room temperature, which reduces the need for guests to set the thermostat to extreme temperatures, thus reducing energy consumption. Patrol Stat is available for PTACs, split systems, and heat pumps.
- The **Patrol Stat Plus** is a Digital Fan Coil Thermostat that contains programmable energy management features and directly replaces existing mechanical Fan Coil thermostats of any voltage from 24-277 volts.
- **Patrol Stat** and **Patrol Stat Plus** can stand alone or connect directly to the Energy Patrol System™ for maximum energy savings and guest comfort.
- **Patrol Luminations** can be installed as a stand-alone occupancy sensing system to automatically turn off lights in public restrooms, conference rooms, linen closets, offices, and other areas in a hotel or commercial building when unoccupied. Auxiliary Sensors are available for “L” shaped rooms or areas with partitions. Patrol Luminations has multiple relay outputs and can connect to a Building Management or Security System for additional monitoring of occupancy. Patrol Luminations has an extended **LIGHTS OFF TIME DELAY** range of 30 seconds to 54 minutes.

In addition, **Patrol Luminations** can be connected to the **Energy Patrol System™** HVAC control in guestrooms, offices, conference rooms or other areas to automatically reset area temperature and turn off lights on a different time delay when the room has been unoccupied for the selected time. The Patrol Luminations circuit can be hidden in a closet out of view; only one Sensor is visible in the room. The combination of Energy Patrol System™ and Patrol Luminations will automatically reduce both HVAC and lighting expense without any intervention by occupants or staff. It will save more energy than typical **CARD KEY** energy management systems and is the ultimate energy management combination.



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