

Hospitality

The hotel industry is in the midst of a paradigm shift. The rising cost of energy is changing how these facilities operate and their concepts of energy management. It used to be true that the guest pays for the luxury of expelling air conditioned air into the atmosphere or leaving the TV on while they shop. Today hotels are looking at ways to continually meet guest's needs and expectations while paying heed to economical and ecological arguments to govern wastage.

SmartSuite

Echoflex's SmartSuite Solution uses wireless technology to integrate control components delivering energy savings with low installation costs. Echoflex's SmartSuite transforms normal hotel rooms into their own autonomous zones of energy savings.

Focusing on the largest consumer of energy within a hotel suite, controlling the heating and cooling systems can provide the shortest return on investment with lowest capital costs. Secondary elements that benefit from control include fixtures, lights and appliances like the television or Internet router.

Using occupancy state to determine operating mode via a key card switch; SmartSuite adjusts the equipment into a normal operation when a guest is present and back to economy mode when vacant. SmartSuite also monitors patio doors and windows and adjusts the equipment automatically to economy or stand-by mode if either are left open. Longer periods of vacancy between guest visits are accommodated automatically avoiding manual adjustment by the hotel staff.



Integrating patio doors and windows into suite controls is costly and invasive. Extensive installation work must be performed just to acquire the monitoring capability. SmartSuite uses self-powered wireless switches; no wires, no junction boxes, no batteries, and no maintenance. A quick installation avoids having to close the suite so retrofits take place between guest visits. Leveraging innovative energy harvesting technology that is both "clean and green" allows hotels to market this unique approach to delivering energy savings.

EnOcean based control products for a sustainable environment



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Guests will appreciate the innovation and concept of using the plentiful ambient energy. Hotels will find it easy to add onto their systems in the future with simple upgrades allowing them to remain ahead of the curve insuring their investment continually reaps rewards.

SmartSuite Family

ERT-STAT Digital Thermostat

The ERT-STAT controls common unitary heating and cooling equipment like fan coils, heat pumps, and unit ventilators. Connecting directly to the low voltage wiring interface for the equipment, the thermostat is a drop in replacement for any standard existing thermostat.

Large buttons allow guests to adjust their comfort temperature set points with a back-lit LCD display indicating current temperature and operating mode. Solid State relays provide silent operation and an optional conformal coating provides protection for internal circuits for seaside properties.



Internal operating modes of the ERT-STAT include normal, economy and stand-by modes.

Normal - standard default comfort zone temperature setpoints

Economy - economy temperature setpoints intended to maintain climate in the space that can be quickly recovered to normal comfort levels

Stand-By - The mode does not try to condition the space climate, includes a periodic fan purge

MC-17 Window / Door Switch or Occupancy Sensor



The MC-17 mounts to a patio door or window to monitor status. Powered by stored solar energy, the MC-17 can operate several days without any light and because it is wireless, requires no conduit or wiring. The door/window status is sent to the thermostat and optional

room controller. In the closed state with the suite occupied by a guest, the thermostat will be in the operating mode. When the door is open, the switch will broadcast status to the thermostat which will enter economy mode. After a configurable timeout period, the thermostat will enter stand-by operating mode.



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PTM265KC Key Card Switch

The key card switch is used with the room key card. When the guest inserts their assigned room key card into the switch, the switch will transmit indicating the room status to the thermostat. The thermostat will enter operating mode and allow the guest to adjust the heating and cooling temperature setpoints via the thermostat’s button interface. When the guest leaves the room taking their room key with them, the switch will again broadcast room status and the thermostat will enter mode after a 15 minute time-out period.



MT-17 Temperature Sensor



The remote temperatures sensors broadcast temperature on a regular heartbeat, approximately every 100 seconds. Remote temperature sensors can be assigned to the thermostat to work, in lieu of or in conjunction with, the internal temperature sensor of the thermostat.

The thermostat can be configured to:

- Ignore all temperature readings except furthest from setpoint, includes internal & remote sensors
- Ignore all temperature readings except closest to setpoint, includes internal & remote sensors
- Calculate the average of all temperature readings, includes internal & remote • sensors
- Ignore all remote sensor temperature readings except furthest from set-point.
- Internal sensor is ignored.
- Ignore all remote sensor temperature readings except closest to set-point. Internal sensor is ignored.
- Calculate average of remote sensor temperature readings. Internal sensor is ignored.
- Ignore all remote temperature reading – forces the internal sensor reading as default

ERDRC-K Room Automation Controller

The ERDRC-K is a full circuit controller that responds to the PTM265KC key card and MC-17 window/door switches. The room automation controller is used to control electrical receptacles, lights and even complete circuits. Any electrical appliance like TV’s or Internet routers can be switched off when the room is vacant further assisting to eliminate wasteful energy use.



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