

e⁴ SMART DIGITAL THERMOSTAT—E529

DESCRIPTION

The e4 Smart Digital Thermostat Model E529 is a member of INNCOM's Integrated Room Automation System (IRAS). Its core is a Direct Digital Control (DDC) processor capable of controlling virtually any fan coil unit, heat pump or packaged terminal air conditioner found in guestrooms. It includes an easy to read illuminated liquid crystal display, an onboard transceiver and the separate X07RFT or X529 logic board. The e529 is battery powered and therefore ideal for certain installations, especially retrofitted in preexisting properties.

It can be equipped with an onboard ZigBee™ radio frequency (RF) transceiver, infrared (IR) transceiver, passive infrared (PIR) occupancy sensor, humidity sensor, outside temperature display, and the award-winning, patented ecoMODE® green button.

The E529 can be used in standalone applications or integrated with the IRAS using low-voltage wiring (S5-bus from the X529 logic board) or wirelessly using RF or IR.

APPLICATION

When an E529 is used as an HVAC controller or thermostat, it will automatically adjust fan speeds and valves or compressor run time to achieve set temperature.

As the key node in an Energy Management System (EMS), the E529 receives inputs from the PIR motion detector and the wired or wireless door switches to determine guestroom occupancy. During times when the room is rented but the guest is not present, the temperature is allowed to range up or down within a programmable setback band from the guest's selected temperature. This results in energy savings with no impact on guest comfort.

When it is connected to INNC*ontrol* II™, INNCOM's centrally controlled system, via the X529 logic board, additional energy savings are achieved by using a broader setback band when the guestroom is unrented. The E529 can also apply wider temperature setback bands when the room is in hibernation during off-season periods.


The onboard ZigBee™ or IR transceiver enables the E529 to control lamps equipped with the INNCOM L206 or L208 Lamp Control Module or other devices connected to the S5-bus or equipped to receive wireless signals. In addition, it can receive inputs from other points in the room such as a balcony door, minibar or smoke detector and transmit their status to the central server.

OPERATION

The E529 is designed to be intuitive for guest use. The easy to read buttons can be used to turn the unit to AUTO or turn it OFF. The FAN button lets the user select among the available fan speeds and the DISPLAY button lets the user toggle between the set temperature and the actual or outside room temperature. The arrow shaped buttons allow the user to increase or decrease the set temperature. The recessed button allows the user to toggle between °F and °C scales.

The user may also elect to participate in the property's sustainability practices by touching the ecoMODE® green button.

FEATURES

- Precision DDC temperature control
- Advanced energy management
- Customer programmable parameters
- Unlimited location options for optimal performance
- Low installation cost
- Wireless guestroom installation
- ZigBee™  or IR wireless communication
- Aesthetically pleasing appearance
- Expandable
- Balcony Door monitoring
- ecoMODE®
- Multi-point lamp control
- Minibar and safe monitoring
- Smoke detector monitoring
- Central control and monitoring of all the above

SPECIFICATIONS

- Model number: E529.RF and E529.IR
- Dimensions: 4.7" W x 4.7" H x 1.2" D (119 mm x 119 mm x 30 mm)
- Operating Range: 41°F to 149°F (5°C to 65°C)
- Temperature: ± 1°F 60°F to 85°F (± 0.5°C 15°C to 30°C)
- Power In: Four AA Batteries
- Output: RF and IR



e⁴ SMART DIGITAL THERMOSTAT - E529 & E529.RF



E529.RF
Radio Frequency Thermostat



X07.X529.RF



HVAC

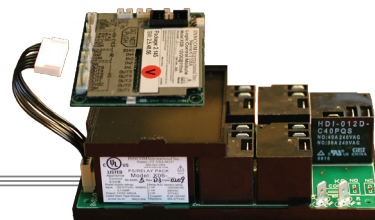


E529.IR
Infrared Thermostat

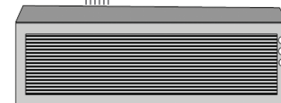


Eye 5

X529



X06



HVAC