

# e<sup>4</sup> SMART DIGITAL THERMOSTAT - E528

## DESCRIPTION

The e<sup>4</sup> Smart Digital Thermostat Model E528 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 and five built-in relays.

It can be equipped with an on-board ZigBee™ transceiver, infrared (IR) transceiver, a passive infrared occupancy sensor (PIR), humidity sensor, outside temperature display, and the patent-pending ecoMODE™ green button.

The E528 It can be used in stand-alone applications or integrated with the IRAS using low voltage wiring (S5 bus) or wirelessly using IR.

## APPLICATION

When used as an HVAC controller or thermostat, In conjunction with an external control module, 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), it 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 connected to INNCOM's centrally controlled system, additional energy savings are achieved by using a broader setback band, when the guestroom is un-rented. It can also apply wider temperature set-back bands when the room is in hibernation during off-season periods.


The on-board ZigBee™ or IR transceiver enables the E528 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 also 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 E528 is designed to be intuitive for guest use. The 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™ touch surface.

## FEATURES

- Precision DDC temperature control
- Advanced energy management
- Customer programmable parameters
- Direct line or low voltage
- Low acquisition and installation costs
- Wired installation
- ZigBee™  or IR wireless communication
- Ideally suited for new construction and retrofit projects
- 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: E528
- 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: 120V, 30 mA • 277V, 15 mA • 24V, mA
- UL listed
- FCC Part 15B Compliant
- CCC Mark Listed

