

e⁴ SMART DIGITAL THERMOSTAT—E527-5B

DESCRIPTION

The e⁴ Smart Digital Thermostat Model E527-5B 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 its compact design allows it to be installed in British and American standard size electrical boxes.

The E527-5B can be equipped with an onboard Passive Infrared (PIR) sensor. It may also include humidity control sensing, minibar access reporting, occupancy reporting to housekeeping, automatic control of lights and the award-winning, patented ecoMODE® green button.

The E527-5B can be used in a standalone application, as part of the IRAS or in a centrally controlled network.

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. The E527-5B can also be used with INNCOM's Guestroom Keycard Controller to provide accurate temperature control in a guest-initiated energy conservation system.

As the key node in an automatic, occupancy-based Energy Management System (EMS), the E527-5B receives inputs from a 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 up to 25% energy savings with no impact on guest comfort.

When it is connected to INNCOM's centrally controlled system, additional energy savings are achieved by using a broader setback band when the guestroom is unrented. It can also apply wider temperature setback bands when the room is in hibernation during off-season periods.

For lighting control, the E527-5B can be connected to the wired relay of a dimmer module or to wireless transceivers to control lamps equipped with the INNCOM L206 or L208 Lamp Control Modules. 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 E527-5B 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. The side-mounted buttons allow the user to increase or decrease the set temperature and toggle between °F and °C scales.

With the ecoMODE® button, the property can offer the guest participation in the hotel defined advanced sustainability programs.

FEATURES

- Precision DDC temperature control
- Advanced energy management
- Customer programmable parameters
- Low voltage
- Low installation costs
- Ideally suited for new construction and retrofit projects
- Balcony Door monitoring
- Multi-point lamp control
- Minibar and safe monitoring
- Smoke detector monitoring
- Central control and monitoring of all the above
- Onboard PIR motion sensor (optional)
- ecoMODE® (optional)
- Humidity (optional)

SPECIFICATIONS

- Model number: E527-5B
- Dimensions: 3.5" W x 3.5" H x 0.9" D (89 mm x 89 mm x 23 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: 12VDC
- CE Mark listed
- FCC part 15B Compliant



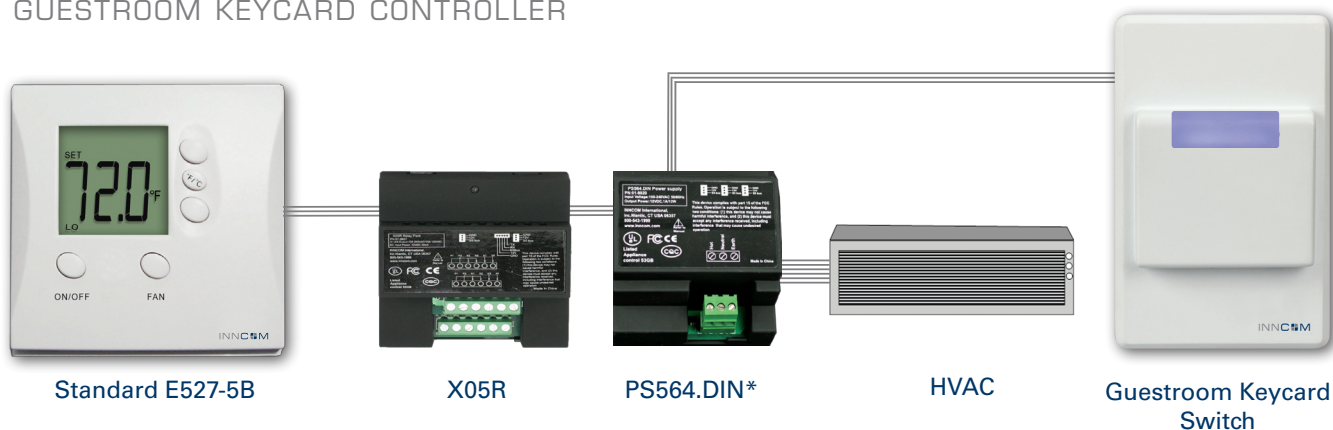
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TYPICAL CONFIGURATIONS

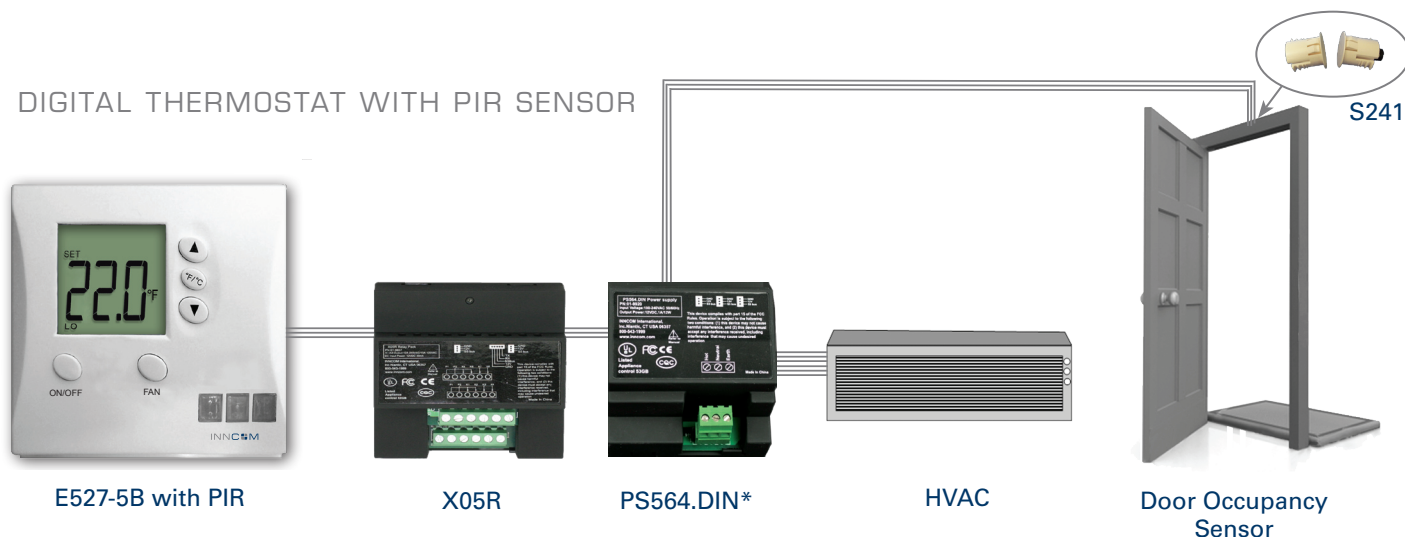
STANDARD DIGITAL THERMOSTAT



STANDARD DIGITAL THERMOSTAT WITH GUESTROOM KEYCARD CONTROLLER



DIGITAL THERMOSTAT WITH PIR SENSOR



* Other power supplies may be used to optimize your individual design requirements.