

INNCOM E7 THERMOSTAT

Set a new standard for comfort and efficiency

The e7 thermostat offers convenience and comfort, and can reduce in-room energy costs. Hotels can save 25–40% on guestroom HVAC energy usage with an INNCOM Networked EMS.*

The latest e-Series thermostat is designed for convenient comfort and energy management, with sensing and control for both temperature and humidity. It also serves as a hub for the INNCOM platform, enabling integration with an extensive range of third-party technologies from property management systems to in-room voice control and more.

When used in a network, the e7 also provides real-time data to INNCOM INNcontrol software. It can track room status, energy use, equipment alarm reporting, and its connection to systems such as PMS and BMS – all of which helps you proactively deliver a rewarding guest experience.

APPLICATIONS

- Standalone HVAC control for both temperature and humidity.
- Standalone EMS. Optimizes in-room energy based on occupancy detection (usually by means of a motion sensor and/or door sensor).
- Networked EMS. Optimizes in-room energy by occupancy and room status. Centrally monitored and optimized using INNcontrol software.

* based on HVAC runtime reduction from a PMS-integrated EMS vs. ETM (traditional thermostat mode) in hotels with average occupancy and <500 rooms

FEATURES & BENEFITS



Sleek, industrial design with a large easy-to-read keypad

Backlight wakes on approach, adjusts to detected light level

Standalone or networked energy management



Works with voice control such as Amazon Alexa™

Optional temperature & humidity sensors (wired or wireless, external)

Compatible with most HVAC systems



On-board digital & analog I/O

On-board motion sensor

Smart wall plate saves configuration to upload to a replacement unit



Sends real-time data to INNcontrol (reporting, monitoring, energy control, & diagnostics)

Easily integrates with 3rd-party technologies like central electronic-lock systems (CELS)



TYPICAL PRODUCT APPLICATIONS

- 2 Pipe | 3 Fan | Heat/Cool FCU
- 4 Pipe | 3 Fan | Heat/Cool FCU
- Heat Pump | 2 Fan | 2nd Stage Heat
- Heat Pump | 3 Fan | Cool Only
- PTAC | 2 Fan | Heat Strip
- 2 Stage Heat | 2 Stage Cool | 1 Fan
- 2 Stage Heat Pump (B/O, Y1, Y2) 2 Fan
- 3 Fan | Digital Heat | Modulating Cool (0-10VDC)
- Heat | Cool | VFD (variable fan drive) | 0-10VDC

INNCOM E7 THERMOSTAT

Specifications	
MOUNTING	Standard US Double Gang: w/ or w/o Mud Ring - Spacer Ring Required
	Standard US Double Gang: with separator - Spacer Ring Required
	Standard US Single Gang: w/ or w/o Mud Ring - Spacer Ring Required
	British Gang: Please contact us for details
DIMENSIONS	L 120mm x W 120mm x H 25mm (H 32.5mm w/ Spacer Ring)
POWER REQUIREMENTS	Input 24VAC or 100-277VAC (based on model)
	Output 12VDC, 250mA Output
COLOR OPTIONS	Ice White & Black Onyx
RECOMMENDED WIRE	18 Gauge
INPUTS	3 digital inputs 0-5VDC, 1 remote temperature sensor input
OUTPUTS	5 on-board relays for low, medium and high fan speeds, heat and cool, 1 output 0-10VDC
DISPLAY RESOLUTION	PMWV LCD (0.1 degree F in test mode)
STANDARD DEADBAND	2 degrees F (1 degree C) between heating and cooling
SENSOR MEASUREMENT RANGES	Thermostat Temp: 33 to 99 degrees F (+/- 1.8); 1 to 37 degrees C (+/- 1)
	Outdoor Air: 0 to 99 degrees F or -18 to 37 degrees C (+/- 1.8 F or +/- 1 C, or as reported from web service)
	Humidistat: ±2% RH between 20 to 60% RH, (±4% RH between 60 to 95% RH)
	Motion Sensor: 120° View Angle, 10M line of sight
	Proximity Detection: 20° horizontal view angle 1.5M maximum (configurable) line of sight range
	Light Sensor: Gamma Value 0.7, Spectral response 550 – 650nm
DIAGNOSTICS (NETWORKED)	HVAC alarms, equipment run-time, room occupancy, network connection, low battery
COMMUNICATIONS Zigbee RF	Range: 100 ft Transmit Power: For FCC, max. 17dbm, for CE Mark Max 12dbm DMN Receive Sensitivity: -94.6dBm Frequency Band: 2.4 Ghz Protocol: 802.15.4 Frequency Channels: 11-26
MINIMUM POWER CONSUMPTION	24 VAC at 100 mA 100 VAC at 100 mA

Specifications		
COMMUNICATIONS BLE RF	Range	50ft
	Transmit Power	5dBm
Wired RS485	Receive Sensitivity	-73.dBm
	Frequency Band	2.4Ghz
	Data Rate	250bps
	Protocol	Deep Mesh
In-room Wired S5Bus	Signal	A,B, Ground
	Network Topology	Multi-Point Daisy-Chain, Tree, Star
	Network Max. Devices	32
OPERATING ENVIRONMENT	Data Rated	2550bps
	Range	50ft
	max no. nodes:	20
STORAGE ENVIRONMENT	41 to 149 degrees F (5 to 40 degrees C), 0-99% RH non-condensing	
APPROVALS	EN EN 60730-1, EN60730-2-9	
	UL (IEC) UL 60730-1, 4th ed. References UL746C for impact requirements of polymeric enclosures UL 60730-2-9, 3rd ed	
	CSA (IEC Based) – Note 1 on standards, Note 2 on aspects impacted by transition, CAN/CSA 60730-2-9, 4rd ed CAN/CSA 60730-2-9, 3rd ed	

Part Number	Description
201-528-24-BK*	24VAC Thermostat, Black Onyx
201-528-24-WH*	24VAC Thermostat, Ice White
201-528-100-BK*	100-277VAC Thermostat, Black Onyx
201-528-100-WH*	100-277VAC Thermostat, Ice White
203-528-100-BK	100-277VAC Thermostat Installation Kit - Black Onyx
203-528-100-WH	100-277VAC Thermostat Installation Kit – Ice White
203-528-24-BK	24VAC Thermostat Installation Kit – Black Onyx
203-528-24-WH	24VAC Thermostat Installation Kit - Ice White
62-1455	Thermostat 100-277VAC Harness
62-1464.R	Thermostat 24VAC Harness
04-1096.FL	e7 Remote Thermistor
201-503	PC-503 Configuration Tool used with engINN
203-250	RS485 DM485 Communication Module

*Thermostat purchase includes Installation Kit and Harness.

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