

# INNCOM E7 Thermostat

The next generation of INNCOM energy management solutions

## OVERVIEW

The INNCOM E7 Thermostat is a direct digital control programmable thermostat that provides comfort and reduces in-room energy costs by up to 35% based on occupancy. This next generation thermostat offers simple solutions that reduce complexity in most HVAC applications. It is the main component of the INNCOM technology enabling platform that provides integrations with more third party technologies which range from property management systems to in-room voice control. The INNCOM E7 thermostat also provides real-time and trended data, when deployed in a networked application, for INNcontrol™3 to furnish room status, energy management, equipment alarm reporting, integration to PMS, BMS and other systems, allows the property to proactively manage the environment to ensure the most satisfying in-room experience.



The New INNCOM Thermostat Available in Ice White or Black Onyx



## APPLICATIONS

- Standalone HVAC control
- Standalone EMS controlling in-room energy based on occupancy typically requiring a door switch monitor and a motion sensor
- Networked and Integrated EMS controls in-room energy based on occupancy and room status and is centrally controlled, monitored and analyzed using the INNControl™3 application

## FEATURES & BENEFITS



A beautiful industrial design with a large easy to read keypad  
Provides standalone or networked energy management



Integrates with Amazon Alexa Voice Control  
Optional external wired or wireless temperature and humidity sensors  
Compatible with most HVAC systems



On-board digital and analog I/O  
On-board motion sensor  
Smart wall plate captures configuration and will upload it into a replacement thermostat



Provides real-time data to INNcontrol 3 for reporting, monitoring, central energy control, and diagnostics  
Easy third party integrations with Central Electronic Lock Systems and other technologies



A dynamic, intuitive user interaction that welcomes the user, with an adjustable backlight based on detected light level

# The INNCOM E7 Thermostat

SPECIFICATIONS	
<b>MOUNTING</b>	<b>Standard US Double Gang:</b> w/ or w/o Mud Ring - Spacer ring optional <b>US Double Gang:</b> with separator - Spacer Required <b>Standard US Single Gang:</b> w/ or w/o mud ring - Spacer Required <b>British Gang:</b> not currently supported
<b>DIMENSIONS</b>	L 120mm x W 120mm x H (25)mm (w/o spacer)
<b>POWER REQUIREMENTS</b>	<b>Input</b> 24VAC input 100-277VAC <b>Output</b> 12VDC, 250mA Output
<b>COLOR OPTIONS</b>	Ice White & Black Onyx
<b>RECOMMENDED WIRE</b>	18 Gauge
<b>INPUTS</b>	3 digital inputs 0-5VDC, 1 remote temperature sensor input
<b>OUTPUTS</b>	5 on-board relays for low medium and high fan speeds, heat and cool, 1 0-10VDC Output
<b>DISPLAY RESOLUTION</b>	PMWV LCD (0.1 degree F in test mode)
<b>STANDARD DEADBAND</b>	2 degrees F (1 degree C) between heating and cooling

## TYPICAL HVAC APPLICATIONS

- 4 Pipe, 3 Fan, Heat/Cool FCU
- 2 Pipe, 3 Fan, Cool Only FCU
- Heat Pump, 2 Fan 2nd Stage Heat
- Heat Pump, 3 Fan Speeds
- PTAC, 2 Fan with 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

## PART NUMBERS \*Thermostat purchase includes Installation Kit, Screw Kit Assembly and Harness.

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
32324212-001	Thermostat Screw Kit Assembly
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
62-1455	Thermostat 100-277VAC Harness

For more information [www.inncom.com](http://www.inncom.com)

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SPECIFICATIONS	
<b>SENSOR MEASUREMENT RANGES</b>	<b>Thermostat Temp:</b> 33 to 99 degrees F (1 to 37 degrees C) +/- 1 degree F <b>Outdoor Air:</b> Temp 0 to 99 degrees F (-18 to 37 degrees C) +/- 1 degree F or as reported from web service <b>Humidistat:</b> 3% RH, in range from 30-95% RH +/- 5% <b>Motion Sensor:</b> 120° View Angle, 10M line of sight <b>Proximity Detection:</b> 20° horizontal view angle 1.5M maximum (configurable) line of sight range <b>Light Sensor:</b> Gamma Value 0.7, Spectral response 550 – 650nm
<b>DIAGNOSTICS (NETWORKED)</b>	HVAC alarms, equipment run-time, room occupancy, network connection, low battery
<b>COMMUNICATIONS</b>	<b>Zigbee RF</b> Range 100ft Transmit power For FCC, maximum 17dbm, for CE Mark, maximum 12dbm DMN Receive Sensitivity -94.6dBm Frequency Band 2.4Ghz Protocol 802.15.4 Frequency Channels 11-26  <b>BLE RF</b> Range 50ft Transmit Power 5dBm Receive Sensitivity -73.dBm Frequency Band 2.4Ghz  <b>Wired RS485</b> Data Rate 250kbps Protocol DeepMesh Signal A, B, Ground Network Topology Multi-Point, Daisy-Chain, Tree, Star Network Max. Devices 32  <b>In-room Wired S5Bus</b> Data Rated 2550 bps Range 50ft max no. nodes 20
<b>OPERATING ENVIRONMENT</b>	41 to 149 degrees F (5 to 40 degrees C), 0-99% RH non-condensing
<b>STORAGE ENVIRONMENT</b>	41 to 149 degrees F (5 to 40 degrees C), 0-99% RH non-condensing
<b>APPROVALS</b>	<b>EN</b> EN 60730-1, EN 60730-2-9 <b>UL (IEC)</b> UL 60730-1, 4th ed. References UL746C for impact requirements of polymeric enclosures UL 60730-2-9, 3rd ed <b>CSA (IEC Based)</b> – 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

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