

# Bidirectional Intelligent Wireless Thermostat

## M3-TS1-24v



### BASIC OPERATION

The Venergy™ Thermostat uses wireless communication to provide quick and easy implementation of energy-saving HVAC controls.

When the thermostat receives an “occupied” signal from an Venergy™ wireless switch or sensor, the user immediately gains full control of the HVAC settings.

When the thermostat receives an “unoccupied” signal, it sets the room back to the preset unoccupied temperature.

When used with a Venergy™ Gateway, the thermostat can be connected to LON and BACNet HVAC control systems.

### Save Energy and Money

- Responds automatically to the Venergy™ keycard switch (M3-KC1) , motion sensor (M3-MS1), and window/door sensor (M3-MRC1)
- Great for office, classroom, hotel room, or dorm room
- Optional manual controls
- Two-way communication
- Optional humidity sensor

### User Controlled

Control the Thermostat with a variety of Venergy™ devices from Magnum ES:

- Wireless or wired occupancy sensors
- Window/door sensors
- Key Card Access Switch
- Smartphone
- Venergy UI software

### Easy to Use

- Installs in minutes
- Easy configuration
- Requires no switch leg wires
- Compatible with virtually all systems and configurations.

### Reliable Range

- 50-150 foot range (typical)
- Compatible with many Venergy™ transmitters from Magnum ES
- Error-checking ensures response only to appropriate wireless transmitters
- Single transmitter can control an unlimited number of Venergy™ Thermostats within range
- Built-in repeater function for extending the range of other Magnum devices.



BIDIRECTIONAL DATA FLOW	
Remotely Configure:	Monitor:
Edit set-points	Temperature/set-point
Configure occupied/unoccupied modes	Humidity
Change configuration	Fan status
Limit user capabilities (set-point range; button control)	Compressor Status
ser™ Technology (including relative and absolute set-point correction)	Valve status
	Pipe temperature
Fan control	Mode (heating /cooling)
Mode control (heating/cooling)	

### Network Diagram:



SPECIFICATIONS	
Range	50 to 150 feet (typical)
Frequency	315 MHz
Input Voltage	24 VOLT
Max Loads	24v(1.5 amp/circuit)120/277(2.4amp/circuit)
Temperature Monitor Range	32.0°F to 99.9°F (0.0°C to 37.7°C)
Temperature Set Point Range	60°F to 85°F (15.5°C to 29.5°C)
Operating Temperature	14°F to 131°F (-10°C to 55°C)
Storage Temperature	-4°F to 131°F (-20°C to 55°C)
Sampling Rate	Every 5 seconds
Display Format	4.3 inch TFT LCD
Fan Control	Selectable: Auto Cycle, Low, Medium, High, Economy, Off
Memory	Stores up to 30 switch IDs
Accuracy	+/- 1°F (0.5°C)
Heat/Cool Control	1 Heat and 1 Cool circuit; Heat pump reversing valve circuit
Dimensions	3.5 x 5.0 x 1.5 inches
Radio Certifications	FCC (U.S. SZV-TCM2XXC); IC (Canada 5713A-TCM2XXC)

### ORDERING INFORMATION

PRODUCT NO.	DESCRIPTION
M3-TS1-24v	Bidirectional Intelligent Thermostat 24 V

### Related Products:



Magnum Power Strip



Venergy Key Card Switch



Occupancy Sensor



Window/Door Sensor