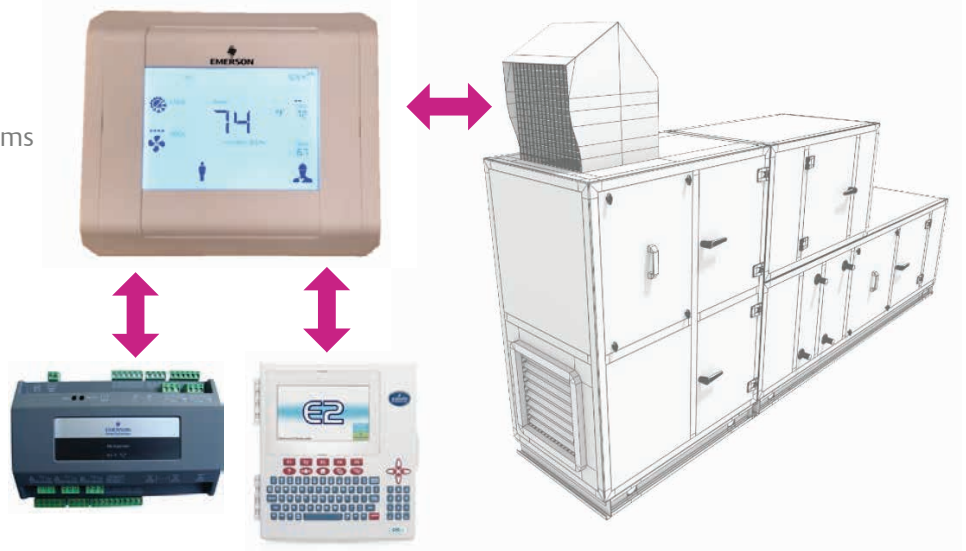# Programmable Touchscreen Thermostat

Ideal for Light Commercial Applications

Emerson's Programmable Touchscreen Thermostat is an ideal solution for light commercial temperature control. This communicating, intelligent monitor and controller combination with built-in temperature and humidity sensors is designed to control conventional Roof Top Units (RTUs) and Heat-Pump systems.
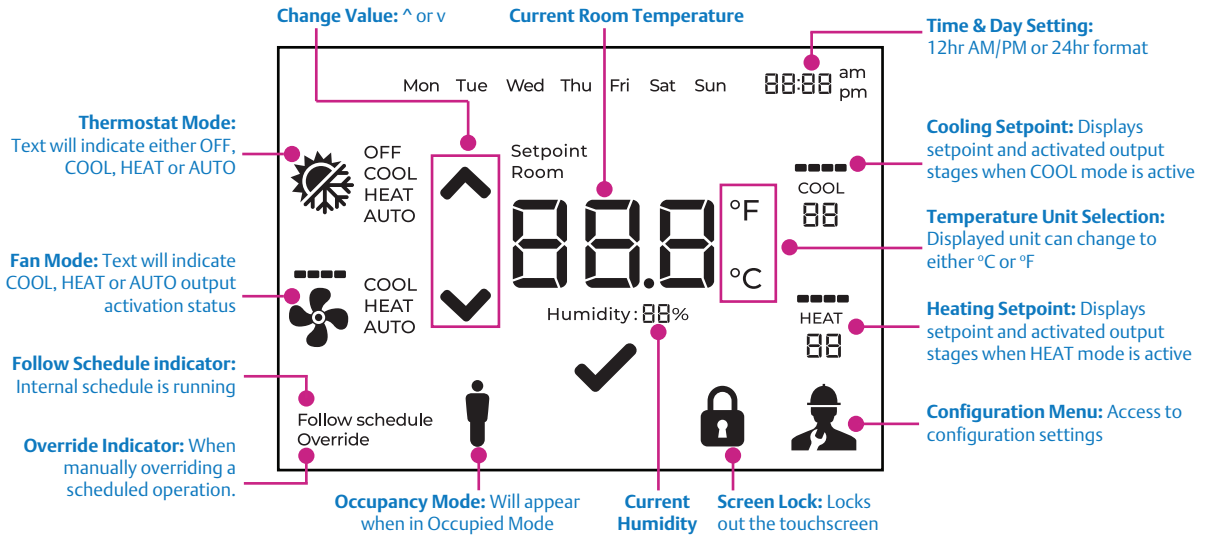
Configuration

For new facility or retrofits, the Programmable Touchscreen Thermostat can control Roof Top Units (RTUs) and Heat-Pump systems and integrates with Supervisory Controls and E2.
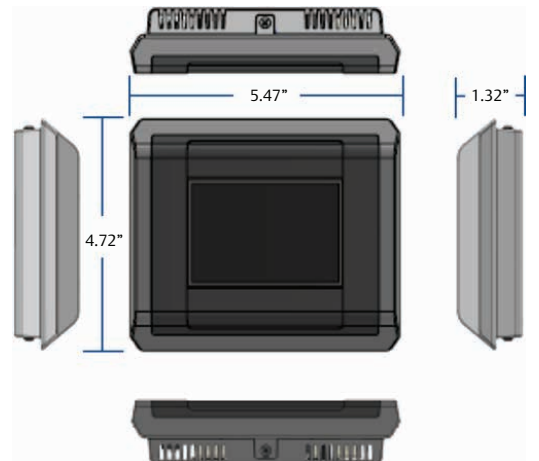

Features and Benefits

- A resistive touchscreen allows user navigation and value changes shown on the display.
- Programmable via Modbus RTU network that integrates with Supervisory Controls and E2.
- (2) stages heat/cool, dehumidification, reversing valve and economizer functionality.
- Remote sensing: (3) 10K thermistor, humidity sensor and fan proof sensor inputs.

- Communicating thermostat that delivers fully integrated functionality for both RTUs and Heat-Pump systems.
- Sleek design makes it suitable for nearly any location in new or retrofit stores.
- Easy-to use menu-driven programming for ease of installation and maximum flexibility.
- Screen lockout to save energy and money by preventing unauthorized setting changes.

EMERSON™

Touchscreen Display

Change Value: ^ or v

Current Room Temperature

Time & Day Setting: 12hr AM/PM or 24hr format

Thermostat Mode: Text will indicate either OFF, COOL, HEAT or AUTO

Cooling Setpoint: Displays setpoint and activated output stages when COOL mode is active

Fan Mode: Text will indicate COOL, HEAT or AUTO output activation status

Temperature Unit Selection: Displayed unit can change to either °C or °F

Follow Schedule indicator: Internal schedule is running

Heating Setpoint: Displays setpoint and activated output stages when HEAT mode is active

Override Indicator: When manually overriding a scheduled operation.

Configuration Menu: Access to configuration settings

Occupancy Mode: Will appear when in Occupied Mode

Current Humidity

Screen Lock: Locks out the touchscreen

Mon Tue Wed Thu Fri Sat Sun 88:88 am pm

OFF COOL HEAT AUTO

Setpoint Room 88.8 °F °C

COOL 88

HEAT 88

COOL HEAT AUTO

Humidity: 88%

Follow schedule Override

Technical Specifications

Part Number	810-1600
Power Requirements	24VAC nominal, 50-60Hz, less than 3.6VA Class 2
Communication Protocol	Modbus RTU on RS-485, 19200 (default) or 9600
Relay Outputs	2-stage Cool / 2-stage Heat
	Dehumidification
	Heat Reclaim
	Reversing Valve
Temperature Setting Range	32 to 122°F, 0 to 50°C
Temperature Accuracy	+/-1.1°F, +/-0.6°C within operating temp range
Humidity Range	0% to 95%
Humidity Accuracy	+/-5% @ 50% RH @ 77°F (25°C)
Analog Input	3 - 10kΩ NTC thermistor / 0-10V
Digital Input	Fan Proof Sensor digital input
Compliance	UL60730, FCC CFR 47 Part 15 Subpart B Class B

5.47"   1.32"   4.72"

Order Information

Programmable Thermostat

Part Number	Description
810-1600	Programmable Touchscreen Thermostat

Temperature Probes & Sensors

Part Number	Description
201-0041	4-inch Stainless Steel Temperature Probe (Return/Supply Air)
201-2009	8" Stainless Steel Temperature Probe (Return/Supply Air)
201-2018	18" Stainless Steel Temperature Sensor (Return/Supply Air)
201-2112	12" Stainless Steel Temperature Sensor (Return/Supply Air)
201-1152	Outdoor Air Temperature Sensor
201-2007	Space Temperature Sensor

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