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.
## Technical Specifications

<table>
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<th>Part Number</th>
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<td>810-1600</td>
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### 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°F, ±/-.06°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

## Order Information

### Programmable Thermostat
- Part Number: 810-1600
- Description: Programmable Touchscreen Thermostat

### Temperature Probes & Sensors

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<tbody>
<tr>
<td>201-0041</td>
<td>4-inch Stainless Steel Temperature Probe (Return/Supply Air)</td>
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<td>201-2009</td>
<td>8” Stainless Steel Temperature Probe (Return/Supply Air)</td>
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<tr>
<td>201-2018</td>
<td>18” Stainless Steel Temperature Sensor (Return/Supply Air)</td>
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<tr>
<td>201-2112</td>
<td>12” Stainless Steel Temperature Sensor (Return/Supply Air)</td>
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<tr>
<td>201-1152</td>
<td>Outdoor Air Temperature Sensor</td>
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<tr>
<td>201-2007</td>
<td>Space Temperature Sensor</td>
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