

# Communicating Thermostats

## Essential Temperature Control & Easy Installation

Emerson's communicating thermostats are specifically designed for leading retailers using one and two stage packaged HVAC units. The intuitive, menu-driven, back-lit LCD display makes navigation and programming quick and easy—even for novices. Accurate temperature control is maintained thanks to a new temperature control algorithm, which virtually eliminates the inaccuracies and temperature offsets associated with traditional differential-based thermostats.

Emerson understands that each retailer has different needs. That's why all thermostats contain two customizable digital inputs to monitor filter status, activate a remote temporary occupancy switch, or use as a general purpose service indicator. In addition, communication over store control networks may be accomplished using up to three remote sensor inputs. All models also contain an auxiliary output to control lighting or disable the economizer function. For advanced applications, economizer control logic is integrated onto the thermostat for use with proportional damper economizer actuators.



P/N 810-1310  
P/N 810-1311  
P/N 810-1312



### Key Benefits:

- Ease of installation reduces retrofit costs
- Custom inputs maximize flexibility
- Echelon communication increases device connectivity
- Easy occupancy override at the touch of a button
- Keypad lock-out prevents local system changes
- Local display gives HVAC unit fan, heating, cooling, and temperature status at a glance
- Eliminates additional control boards needed for HVAC unit control
- Increased system robustness with standalone capability
- UL, CSA, and CE approved

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| Part Number                          | Heat/Cool Stages   | Economizer |
|--------------------------------------|--|------------|
| 810-1310                             | 2 Heat, 2 Cool   |            |
| 810-1311                             | 2 Heat, 2 Cool   | Yes        |
| 810-1312                             | 3 Heat, 2 Cool / Heatpump  |            |
| <b>Specifications</b>                |  |            |
| <b>Size</b><br>(L x W x H)           | 4.94" x 3.38" x 1.13"<br>(125mm x 86mm x 29mm)                   |            |
| <b>Operating Conditions</b>          | 32 °F to 122 °F (0 °C to 50 °C)<br>0% to 95% R.H. non-condensing |            |
| <b>Power Requirements</b>            | 19-30 Vac 50 or 60 Hz<br>2 VA ( RC & C ) Class 2                 |            |
| <b>Temperature Sensor Resolution</b> | ± 0.2 °F (± 0.1 °C)  |            |
| <b>Control Accuracy</b>              | ± 0.9 °F (± 0.5 °C) @<br>70 °F (21 °C)                           |            |



## Intelligent Store™ Architecture

Emerson's communicating thermostats are a component of Emerson's Intelligent Store™ architecture. This architecture creates an integrated suite of products and services that provide retail operators a new level of sophistication and insight into their operations. When integrated or linked together, these innovative products and services can provide maintenance, energy, and reliability gains. Also included in the Intelligent Store are the E2 Facility Management System, Control Link™ device controller, ProAct® monitoring services, Intelligent Store Discus® compressor, select Lennox HVAC units, and other third party devices. For more information on Emerson's Intelligent Store, or Emerson's facility services, visit [www.EmersonRetailSolutions.com](http://www.EmersonRetailSolutions.com)



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