



# eStat Thermostat

## Two way communication in Real Time

With the eStat, multiple location energy management couldn't be easier. Add value to your existing communications network by managing your energy usage remotely. Easily identify and troubleshoot problems with your HVAC system, avoiding unnecessary on site visits. Receive immediate notification of problems with customized alerts. Keep network traffic low with "On-Demand" communications for normal operational information.

Each eStat ships preconfigured to customer specifications with a user-friendly web interface for programming and monitoring. Thermostatic control and network communications are purposely separated to prohibit interrupted operation of HVAC equipment.

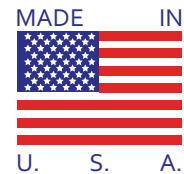


## KEY FEATURES

- Manage time/temperature programs from your computer via your wide area or third party network.
- Secure network transmission with AES 256 bit encryption.
- Wires and operates like a traditional thermostat with a digital display showing setpoints, room temperatures and humidity.
- Program temperatures, fans, overrides, button permissions with dual heating/cooling stages.
- Integrates with Lightstat lighting controls to easily program 1 - 10,000 thermostats.
- Reports back system temperatures and equipment status for simple, remote trouble shooting.
- Configurable to local building codes.

**APPLICATIONS**

- Ethernet Control of HVAC Systems
- Multi-Site Environmental Control
- Energy-Saving Programming
- Remote Management Sites
- Diagnostic Troubleshooting
- Multi-Site Retail Stores
- Quick-Serve Restaurants



Limited Lifetime Warranty  
contact Customer Service for details

# eStat Thermostat

## Local Controls

- System ON/OFF switch controls HVAC equipment and thermostat
- FAN control button sets fan AUTO or ON operation if permitted
- Adjustment buttons for temporary setpoint program overrides, if permitted
- Cancellable time delays for field verification
- Selectable heating interstage differential for optimal heat pump operation
- Selectable compressor time delays
- Selectable fan control by equipment during heat cycle
- Ability to force either heating or cooling stages ON when troubleshooting
- Ability to toggle state of Auxiliary Relay to verify field wiring

## Remote Controls

- Daily temperature/occupancy programming with up to four steps a day
- Corporate controlled setpoints and temperature override permissibility to prevent over-heating or cooling of space
- Limit, completely disallow, or change button functionality for field use
- System retains up to 5 years of performance data on your HVAC equipment and controlled space for diagnostic review
- Notification of HVAC problems via email and/or mobile devices
- Remotely issue/cancel temporary temperature setpoint overrides
- Remotely issue/cancel temporary FAN mode overrides
- Remotely shut down HVAC equipment or simply cycle power to eStat®
- Manipulate cooling setpoint during excessive humidity conditions
- Variable history logging interval

## Base System

- eStat® Thermostat
- Remote Temperature Humidity Sensor
- Remote Supply Air Temperature Sensor
- Cat-5 or Cat-6 Ethernet Cable
- Installation and Operation Manual
- Decorative Wall Plate
- Mounting Hardware

## Accessory Kits

- Available upon request

**BACKLIT DISPLAY**  
shows room temperature, heating and cooling set points, and HVAC equipment status.

**BUTTONS CUSTOMIZED**  
for remote or local functionality.

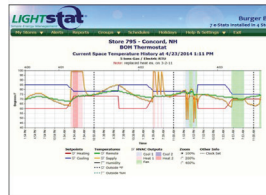
**PLUG-N-PLAY**  
Simple connection to your existing communication network.



**SETUP DIAGNOSTICS**  
include indicating lights and simple text messages, providing program and transmission status for easy operation by untrained personnel.

**PUSH BUTTONS**  
allow for local temperature adjustments within an owner specified range, or no adjustment at all.

**Real time reporting from multiple locations puts you in control of energy usage from your PC.**



Look at past hours of system history to verify efficient operation.



Easy to read HVAC status at a glance.

Electronic reports will keep you informed with alerts.

## ELECTRICAL SPECIFICATIONS

### General:

- Voltage Rating.....20 to 32 VAC
- Current Draw (*Typ*).....250mA @ 24VAC

### Network:

- Cabling.....Cat-5 or Cat-6 with RJ45 connector
- Ethernet.....10/100BT Auto-Sensing
- Wiring Distance (*Max*).....328 ft

### HVAC:

- Cabling.....up to 10-Conductor, #18AWG
- Wiring Distance (*Max*).....500 ft

### All Relays, Rated (per UL):

- 24 VAC, 60 Hz, Class 2, 1A, Resistive / Pilot Duty

### Sensor:

- Cabling.....2-conductor, #18AWG
- Wiring Distance (*Max*).....500 ft

## To Order Call Customer Service

1.800.292.2444

### Part Number

### Description

ESTAT-xx	eStat® Internet Programmable Thermostat
RTH	Remote Temperature/Humidity Sensor
SAS	Supply Air Sensor



**Lightstat Inc.** 22 W. West Hill Rd. Barkhamsted, CT 06063  
 USA 1.800.292.2444 [sales@lightstat.com](mailto:sales@lightstat.com) [www.lightstat.com](http://www.lightstat.com)  
 © 2017 Lightstat Inc. All Rights Reserved.

