



ecobee EMS Si



Uncover big savings with EMS Si: the most cost-effective energy management solution

Heating and cooling account for up to 63% of light-commercial energy usage, and the US EPA suggests that 30% of energy used in these facilities is wasted. With ecobee, you can monitor and control your commercial building's HVAC system and automate ancillary devices—all at a fraction of the price of a Building Automation System.

Anytime, anywhere

Manage an unlimited number of thermostats, individually or as groups, across various locations with multiple users, all from a single web portal or smartphone app.

Quick ROI

With an average payback of less than one year, and no recurring fees - ecobee improves your bottom line year after year.

Controlled access

Administrators have complete control of thermostat settings and can establish different permissions for building managers and other employees. Administrators can limit employee access or lock thermostats to minimize energy waste.

Easy monitoring

ecobee's remote diagnostics and reporting tools provide insight to help you remotely identify and assess problems, reducing administration time and HVAC service costs.

Smart, really smart

Let us do the work for you. Our intelligent algorithms use thousands of data points to optimize for comfort when a building is occupied, and save energy when it's not.

Maximize efficiency

Apply standardized operating procedures across all locations so you're always running the right schedule in the right place at the right time.

Some of our customers:



"We chose ecobee for our Weekend's Only Furniture stores. Right away, we saved 25-30% month over month."
— *Patrick Winkler, Weekends Only Furniture*

Customer highlight

Taco Bell Restaurants

Problem

With 40% of energy consumption directly related to heating and cooling equipment, Taco Bell wanted a solution that would reduce their energy footprint and operational costs, and help protect perishable food items.

Outcome

- 8-12% month-over-month savings
- \$1000's in food spoilage prevented with alerts from temperature sensors in freezers and refrigerators
- Significant reduction in operational costs
- Reduction in service calls with remote diagnostics and troubleshooting

“Many of the competitive products we examined just weren’t as intuitive. ecobee had it all—it was the perfect solution for our needs.”

— **Dwayne Kostih** VP Operational Services, Austaco Ltd/
DBA Taco Bell



Easy installation

- Installation and set-up in less than one hour
- Automatically detects the local wi-fi network
- No gateway required

Unparalleled value

- Free software upgrades
- No recurring fees
- 3-year warranty

Peace of mind

- Automatic alerts and service reminders
- HVAC Reports for remote diagnostics and troubleshooting

Product specifications

Compatibility

- Conventional (2H/2C)
- Heat pump (3H/2C) incl. 1-stage auxiliary heat
- Gas, oil, electric
- Dual fuel

Automation

Two dry contact inputs and/or 10K resistive temp sensors that can be programmed to:

- Act as the thermostat control sensor
- Monitor freezers and coolers
- Adjust the heat and or cool set temperatures
- Switch the system to occupied or unoccupied mode
- Shut down the compressor
- Turn fan on
- Disable heat

Wire terminals

- | | | |
|-------|----------|---------|
| • R2- | • W2 AUX | • Rc |
| • R2+ | • Y2 | • G |
| • R1- | • C | • W O/B |
| • R1+ | • Rh | • Y |

Temperature range

Set point: 45° to 92°F (7° to 33°C)
 Display: 40° to 100°F (5° to 37°C)
 Sensitivity: +/- 1°F (+/- 0.5°C)
 Operating: 32° to 130°F (0° to 55°C)

Humidity range

Display: 20% to 90% RH
 Sensitivity: +/- 5% RH
 Operating: 5% to 95% RH (non-condensing)

Powering method

24VAC (3.5VA maximum)

Connectivity & security

ecobee uses the latest encryption technologies to ensure that data is protected both in transmission and network access. The ecobee EMS Si is designed to support:

- 802.11 b/g/n wireless routers
- WEP 64, WEP 128, WPA and WPA2 encryption methods
- 168 bit SSL encryption
- DHCP (dynamic) or Static IP addressing

