



EcoAir

Remote Display Unit

The EcoAir Remote Display, part of the EcoWave Remote Thermostat Package, offers a flexible solution for energy savings.

Hardware Adapts to Building Requirements

The EcoAir™ Remote Display Thermostat is the interface component of the EcoWave™ Remote Thermostat Package. The EcoAir offers easy installation in almost any building environment--simply place the EcoAir display in the optimum location for occupant temperature measurement and ease of occupant use. To provide flexibility for system architecture, the EcoAir can operate wirelessly, powered with two AA batteries, or be hardwired to the EcoSource™. Both communication styles offer complete, two-way interaction between the EcoAir and EcoSource.

The EcoWave can be configured to reduce complexity in many different HVAC scenarios:

- Install multiple EcoSource control units to manage several HVAC systems with a single EcoAir display unit, preventing opposing temperature controls from competing against one another.
- Install multiple EcoAir display units throughout a suite or conference room to allow individual areas the ability to make temperature changes that control a single EcoSource and HVAC unit.
- Interface with a line-voltage HVAC system while still using low voltage or wireless control signals.

Efficient Energy Management with Telkonet's Recovery Time Technology

Using occupancy information from the on-board passive infrared sensor, optional external EcoSense™ sensor, or the optional EcoContact™ door contact, the EcoAir will determine when a space is occupied or vacant and communicate that information to the EcoSource. When a room is determined to be unoccupied, the system can revert to a temperature limit set by the operator or implement Telkonet's proprietary Recovery Time™ technology.

With Recovery Time, the EcoSource constantly calculates how far the temperature of each room can drift from the occupant's preferred setting, or setpoint, to maximize energy savings and still return within the preset Recovery Time. Every room is constantly and independently evaluated to determine an energy efficient temperature based on environmental characteristics. Through the constant monitoring of the HVAC unit's ability to drive the temperature and real-time adjustment of setback temperature, rooms are never excessively hot or cold when an occupant returns. Recovery Time technology delivers room-by-room, occupant-by-occupant savings, while maximizing occupant comfort.



Overview

- On-board occupancy sensor
- Wired or wireless communication
- Provides access to tools and resources that constantly monitor and control your energy savings
- Two configurable soft buttons

Key Features

- Easily installed and programmed
- Enables Telkonet's Recovery Time Technology
- Full remote control capability with any web browser via Telkonet's EcoCentral platform
- Communicates easily with other EcoSmart products to ensure highest energy savings

Options

- Humidity Sensor
- Two (2) Dry Contact Inputs

Designed for Easy Operation

The EcoAir remote display unit features a modern design with optional backlights in orange, and blue. Thermostat enclosures are available in a multitude of Pantone colors to match specific designer requirements. The large, easy-to-read LCD display has options to display both the setpoint and room temperature as well as outdoor temperature. Maintaining the EcoAir is simple with a secured maintenance menu for building staff. Optional buttons under the screen can be software-customized per site. Select from °F/°C, Heat, Cool, Heat/Cool or Backlight.

Let Telkonet Help You Take Control

By installing the EcoAir and EcoSource as part of a full EcoSmart™ networked solution, a building manager gains full remote control capability of individual thermostats. A setpoint or mode can be changed room-by-room over the secure web-based EcoCentral™ Virtual Engineer command center. Global site changes to setpoint ranges, setbacks, or even scheduled load shed events can be made easily by grouping the settings into new profiles, which can be delivered to a group of thermostats at a time. As part of the EcoWave system, the EcoAir can reduce equipment runtime and energy consumption in unoccupied rooms by 20-45%.

Technical Specifications

ZigBee® 802.15.4 Wireless
2.4 GHz ISM band
Serial Port
Temperature Range: 35-120°F (2-49°C)
Humidity Accuracy: +/-2% (10-90% RH)
Operational Voltage: 3.3VDC
Maximum Functional Wattage: 0.5W

Height: 4 in. (10.16 cm)
Width: 6 in. (15.24 cm)
Depth: 1.5 in. (3.81 cm)

For more information contact a Telkonet representative today.
Visit www.telkonet.com or call 888.703.9398.