# Wireless Energy Management Thermostat with Occupancy Detection

*This Thermostat delivers unprecedented energy savings without compromising comfort in a sleek and modern design with fingerprint resistant glass.*




## *Key features*

### Energy Savings

Reduce HVAC runtimes by 45% on average with our energy management system that allows full customization of energy savings to fit any situation.

### Seamless Networking

Connect up to 1,000 rooms through one hub with our built-in wireless mesh-networking that does not interfere with your Wi-Fi network.

### Plug & Play Installation

Whether you're retrofitting an existing property or breaking ground on a new construction, our thermostat can be self-installed in less than 10 minutes per unit.

### Smart Integrations

Integrates with industry-leading smart room technology, property management software, door locks and lighting solutions.

### Online Management

Our easy-to-control interface, real-time alerts and notifications and monthly reporting makes it simple to manage your properties.

### Works seamlessly with the following systems, making it the perfect fit for your HVAC system setup.

- Vert-I-Pak®
- ZoneAire® Select PTAC
- ZoneAire® Premier PTAC
- FreshAire® PTHP
- Floating Air® Premier Ductless Split Systems
- Floating Air® Select Ductless Split Systems

| Models | |
|---|---|
| Friedrich | EMWRTA4, EMWRTB4, DSSXEMWRTA4 |
| Rheem | EMWRTA4R, EMWRTB4R, DSSXEMWRTA4R |
| Ruud | EMWRTA4U, EMWRTB4U, DSSXEMWRTA4U |

**The registered trademarks are owned by Friedrich Air Conditioning LLC, A Rheem Company**

## *Thermostat Specs*

| Mechanical | |
|---|---|
| Case dimensions | 5.60" x 3.46" x 0.91" (142mm x 88mm x 23mm) |
| Screen dimensions | 2.60" x 1.65" (66mm x 42mm) |
| Operating temperature | 32-105°F (0 - 41°C) |
| Display temperature range | 32-99°F (0-41°C) |
| Setpoint temperature range | 64-85°F (18-29°C) adjustable |

| Sensors | |
|---|---|
| Temperature Accuracy | ±1°F |
| Built In Occupancy Sensor | Yes |
| Built In Occupancy Sensor Specs | Passive InfraRed (PIR) with detection range of ±47° (94°) |
| Compatible with Window/Door Sensors | Yes |
| Compatible with Wireless Occupancy Sensors | Yes |
| Compatible with Wireless Temperature Sensors | Yes |

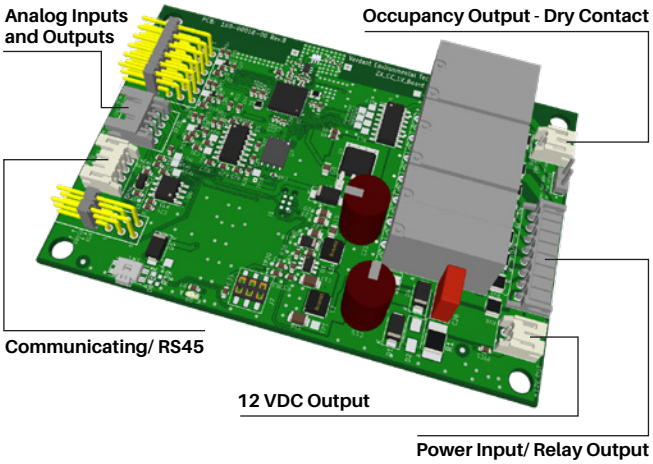
| Electicial | |
|---|---|
| Operating Voltage | 2 x 1.5VDC AA Alkaline Non-rechargeable Batteries - Field Supplied 24VAC or 12VDC |

| Communications | |
|---|---|
| Wireless Frequency | 902-928MHz (NA) 863-870MHz (EU) |
| Mesh Network | No provisioning needed. Proprietary Sub-GHz communication protocol |
| Bluetooth | 2.4 GHz; used during commissioning, triangulation, and communication to wireless sensors |
| Zigbee | Module available for Zigbee based in room integrations |

| Integrations | |
|---|---|
| Lighting | Yes |
| PMS | Yes, requires networking |
| Door Lock | Yes, requires networking |
| BACNet | Yes, requires networking |
| API | Yes, requires networking |
| Demand Response | Yes, requires networking |

## *Wireless Control Card Specs*

| Mechanical | | |
|---|---|---|
| Case dimensions | 4.08" x 2.76" x 1.02" (123mm x 70mm x 26mm) | |
| Inputs | (3) Analog 12VDC | |
| Outputs | (5) Terminal Relays<br>(2) Aux Relays<br>(3) Analog<br>(2) RS485<br>12VDC | |
| Operating Voltage | 12-27 VDC/VAC | |
| Terminals | Fan High (GH)<br>Fan Low (GL)<br>Compressor (Y) | Heat Pump (OB)<br>Heat (W)<br>AUX 1<br>AUX 2 |




| Certifications | |
|---|---|
| North America Certifications | FCC ID: XEYWX<br>IC: 8410A-WX |

# Accessories

| | |
|---|---|
| **Window/Door Sensor** | EMRDS4 |
| **Wireless Occupancy Sensor** | EMRWOS4 |
| **Online Connection Kit** | EMOCT4 |
| **Wallplate** | EMCWPA4, EMCWPB4 |
| **Energy Management Remote Access Fee** | EMRAF4 |
| **Wired Occupancy Sensor** | EMROS4 |
| **Remote Temperature Sensor** | EMRTS4 |
| **Low Voltage Control Card** | EMCC6R4 |
| **Zigbee BLE Chip required for door lock integration** | EMZBU4 |