Temperature Setback Controller

FOR PTAC APPLICATIONS

ERM-FP-24

Overview

The Temperature Setback Controller for Packaged Terminal Air Conditioners (PTAC) uses wireless technology to monitor a hotel room's environment and deliver setback operation during vacancy periods. This allows facilities to upgrade hotel suites quickly with occupancy based energy controls without having to replace existing equipment.

Adding wireless energy control to hospitality suites provides immediate savings for facilities and operators while ensuring the guest experience is not negatively affected. Installation time of wireless controls is much shorter than traditional wired systems so facilities can upgrade suite by suite, often between guest visits.

Integrated temperature-limiting features ensure suite temperature never exceeds pre-defined thresholds during vacancy so guest comfort is never compromised. An additional AC lockout feature can also limit the lower temperature level during occupancy for additional energy savings.

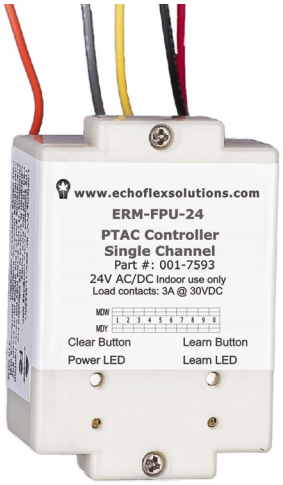
Other features include telegram repeating and BEMS system integration allowing the controller to be used both in distributed control applications or as a component of a centralized system. The controller supports radio Range Confirmation®, a feature that allows installers to test signal strength for optimal sensor placement and system integrity.

The controller responds to linked:

- key card switches or occupancy sensors that monitor suite occupancy/vacancy state
- proximity switches that monitor patio door or window positions
- temperature sensors monitoring suite temperature

Echoflex offers two methods of configuring the controller:

1. Use the linked sensors and Simple Tap™ to make quick changes to individual controllers.
2. To access the full menu of configuration parameters, Echoflex's Garibaldi software is a PC based tool that includes hands-free commissioning.



Features

- Use for interfacing with hospitality PTAC equipment for occupancy based setback control
- AC lockout feature can limit the lower temperature level for enhanced energy control
- Vacancy temperature range insures suites don't get too hot or cold during vacancy periods
- Monitors linked battery-free, keycard, proximity (reed) switches, temperature sensors and occupancy sensors
- Range Confirmation® allows optimal placement of linked sensors - (Echoflex sensors with Range Confirmation® feature only)
- Central Command support for BEMS gateway control
- Supports commissioning via Simple Tap™ or Garibaldi (remote management) software
- Assign up to 20 battery-free wireless switches or sensors to one controller
- Reliable radio reception range of 24 m (80 ft) - commercial office spaces (typical), up to 100m (330 ft) line of sight
- Low-cost alternative to running wires and conduit - ideal for retrofit projects
- Doubles as a telegram repeater

Ordering Information

Description	902 MHz Model	902 MHz PN
PTAC Temperature Setback Controller Module- 24VAC/DC	ERM-FPU-24	8189A1124-X-1

echoflex an ETC Company

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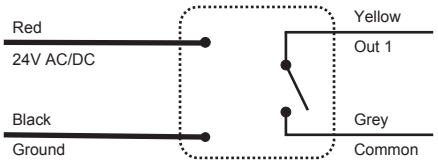
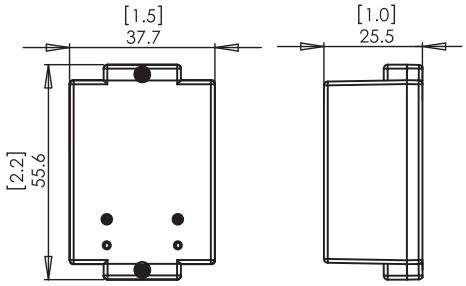
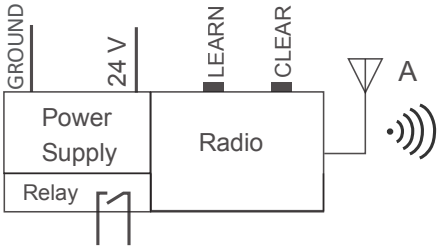
Wiring Diagram



Dimensional Diagram



Block Diagram



Equipment Profiles - Remote Devices Supported

EEP: A5-02-05	Temperature Sensor, 0-40°C
EEP: A5-07-01	Occupancy Sensor
EEP: F6-04-01	Key Card Activated Switch
EEP: A5-30-02	Single Input Contact (doors and windows)
EEP: A5-38-08	Central Command: set point, shift and absolute
EEP: A5-10-xx	Room Operating Panel, call Echoflex for details
EEP: D5-00-01	1BS Contact and Switches

Hardware Specifications

Power Supply	24 VAC/DC
Power Consumption	900 mW full load
Outputs	3 A @ 30VDC isolated output 2 x LEDs, Learn (green) and Power(red)

Communications

Radio Frequency	902 MHz
Antenna	Whip
Transmission Range	24 m (80 ft) - commercial office spaces (typical), up to 100m (330 ft) line of sight
Inputs	LEARN and CLEAR buttons for sensor assignment

Mechanical Specifications

Operating Temperature	-10 °C to 45 °C (14 °F to 113 °F) ambient
Relative Humidity	5% to 95% RH (non-condensing)
Weight	60 g (2.2 oz)
Dimensions	56 x 38 x 26 mm (2.2 x 1.5 x 1.0")

Agency Listing & Compliance

Radio Frequency 902 MHz only

FCC Part 15.231 - Remote Control Transmitter

IC RSS-210

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