

ERPT Installation Guide

This guide covers models ERPT-D-LV, ERPT-D-120/277/347, ERPT-DC-LV, ERPT-DC-120/277, and ERPT-DC-120/347. Model numbers ERPT-DC are equipped with EnOcean 315MHz radios and other ERPT-D models have the EnOcean 868MHz radios.



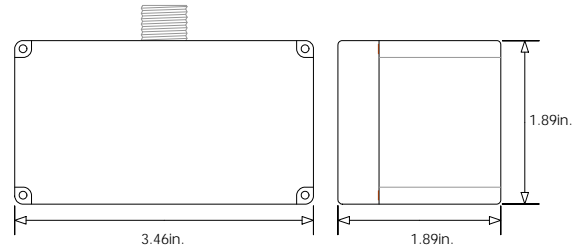
NOTE: ELECTRICAL SHOCK HAZARD; THE ERPT IS AN ELECTRICAL DEVICE AND SHOULD ONLY BE INSTALLED BY A QUALIFIED INSTALLER OR ELECTRICIAN. FOLLOW ALL APPLICABLE ELECTRICAL CODES IN THE COUNTRY OF INSTALLATION. FOR INDOOR USE ONLY.

Mounting the ERPT

The ERPT is mounted to an electrical junction box or panel with a ½” threaded nipple. The antenna for the controller is external to the housing to allow better reception and radio range.

The ERPT must be mounted on the outside of the junction box.

The ERPT controller products are intended to be used with receivers enabled with EnOcean TCM radios. Locating the wireless receivers to work with the installed ERPT requires planning. Careful consideration should be made for locating the repeaters based on the construction materials in the space and possibility of tenant’s furniture disrupting the transmissions. Please refer to the range planning guide downloaded from www.echoflexsolutions.com/files/Reliablerangeplanning_0308.pdf



Wiring the ERPT:

Power to the controller is connected between the White (Neutral) and the Black (120V). Optionally, based on model number, commercial voltages are applied between the White (Neutral) and the Brown(277V) or Yellow(347V). (see wiring diagram).

Use only approved wire. Cap off all unused wires.

For low voltage models, connect 24VAC or VDC between the Red (+) and Black (–) Wires.

All models have an exposed orange antenna wire. Do not cut, connect or cap this wire.

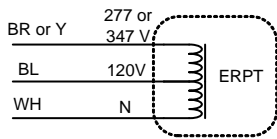


Diagram 1: High Voltage wiring ERPT

NOTE: Do not cut, connect or cap the orange antenna wire

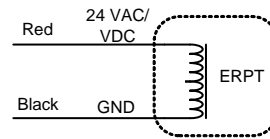


Diagram 2: Low Voltage wiring ERPT

Diagnostic LED's

Description	Transmit led	Power led
Normal Mode	OFF	ON
Receiving and Re-transmitting a telegram	Blinking	ON

Hardware Specifications

Power Supply	120/277 VAC or 120/347 VAC or 24VAC/VDC
Power Consumption	1.0 W under full load
Communications	315 MHz [TCM200] or 868 MHz [RCM120] EnOcean radio
Antenna	Integrated 15cm whip (315 MHz), 9cm (868 MHz)

Mechanical Specifications

Operating Temperature	14 F to 113 F (-10 C to 45 C)
Relative Humidity	5% to 95% RH (non-condensing)
Weight	13.5 oz (385 gms.)
Dimensions	3.5" x 1.9" x 1.9" (88 mm x 48 mm x 48 mm)
Mounting	½" nipple

Agency Listing and Compliance

UL 508 – Industrial Control Equipment, UL 5085 Part 3 – Low Voltage Transformers
 UL2043 Plenum Rated, suitable for air-conditioning space installations
 CSA CS 22.2 - Contract # 241205
 FCC Part 15.231 - Remote Control Transmitter