

## Installation Guide

This guide covers model numbers PTM265, PTM265D, PTM265C and PTM265DC.

The models PTM265xC are equipped with EnOcean 315MHz PTM200C radios and the PTM265x models have the EnOcean 868MHz PTM200 radio.

The PTM265 wall switch communicates with Echoflex controls to activate the controller's internal relay. In most applications, the controller's relay is connected to a lighting load or circuit and the PTM265 wall switch functions as a basic light switch.

The PTM265 wall switch requires no wiring connections and uses no batteries. The kinetic energy of a finger depressing either the ON or OFF side of the switch generates enough energy to transmit the switch event.

The PTM265D is a dual switch rocker assembly and is used and assigned to a controller exactly the same way as the single switch. For the dual switch models, each switch is separate from the other and can be assigned to the same controller or different controllers.

### Mounting the PTM265

Careful consideration should be made for locating the controllers and switches 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](http://www.echoflexsolutions.com/files/Reliablerangeplanning_0308.pdf)

The PTM265 can be mounted on any surface; ceiling, wall, desk, cubicle wall, etc. The PTM265 should be installed in the space where the Echoflex controller device is controlling the light fixtures or circuits however the signal will travel through material barriers, refer to the range planning guide for more information.

The PTM265 sensor can be mounted using screws (not supplied) through the back plate or using double sided tape or Velcro™. The ON side of the switch should be mounted on the top; the switch has an arrow that should be pointing UP next to a label indicating TOP. Additionally, on the rear face there are two numerical markings (1) to indicate ON and (0) to indicate OFF.

The first and simplest method is to mount the switch using double sided tape or Velcro™ (not supplied).

1. Attach the tape or Velcro to the back surface using two pieces, each about 4cm. (1.5in.) in length.. Insure none of the tape will hang outside the switches edges once mounted
2. If you're using tape, remove the protective film to reveal the sticky surface. If you are using Velcro, remove the backing tape from the mating strip but do not separate the Velcro strips
3. Hold the switch over the mounting location and gently press to adhere.
4. Attach the face plate (not supplied)

The alternative method is to secure the switch with screws and anchors (not supplied).

1. Using a drill suited to the wall anchor size ( #6 screw ), bore the holes in the wall board
2. Insert the wall anchors as per package recommendations, mount the switch with the screws
3. Attach the face plate (not supplied)

**Learning a PTM265 to a controller**

This process requires the controller to be mounted, powered and within range of the switch to be learnt.

The controller has 4 labeled holes on the face plate.

LEARN button – The LEARN button can be used to learn a switch or sensor to the ERDRC controller

CLEAR button - The CLEAR button erases all switches and sensors learned to the ERDRC controller

LEARN and POWER LEDs – Diagnostic led’s

1. Insert a small flat-head screwdriver or pen into the LEARN hole on the controller depressing the button for a half second. In LEARN mode the Learn led will stay ON and the Power led will toggle every 2 seconds.
2. Click the switch ON. The power led on the controller will remain lit for 4 seconds while it LEARNs the new device. It will resume toggling allowing you to TEACH another device up to a total of 30 devices. Activating LEARN mode from a switch or sensor that is already learned to a controller, will remove or un-learn it from the controller.
3. To exit LEARN mode, depress the LEARN button on the controller again for a half second. LEARN mode will time out after no activity in 30 seconds.

**Clearing a controller of all sensors or switches**

Insert a small flat-head screwdriver or pen into the CLEAR hole depressing the button for 5 seconds. The Learn led will flash ON for 1 second and then OFF to complete the step

**Troubleshooting Guide**

Problem	Solution
The controller does not respond to the switch	Follow the process of learning the switch to the controller
The controller does not respond to the switch when in learning mode	Check for metal obstacles between the controller and switch; beware of signal deflection down a long section of wall. Total range should be about 30m. For more information, download the range planning guide at <a href="http://www.echoflexsolutions.com/files/Reliablerangeplanning_0308.pdf">http://www.echoflexsolutions.com/files/Reliablerangeplanning_0308.pdf</a>