

## Installation Guide

This guide covers model numbers TAP-17K, TAP-17, TAP-17CK and TAP-17C

The model TAP-17C is equipped with EnOcean 315MHz radios and the TAP-17 model has the EnOcean 868MHz radio.

The TAP-17 Task Ambient Photosensor communicates with Echoflex ERDRC controls to manage the light levels within interior spaces. The light level is transmitted to the controller which determines whether the controlled space requires more or less light based on pre-configured lighting set points. If the dimming output from the controller is connected to a dimming ballast; the output will adjust to meet the set point. The controller can also control the lighting with the internal relay when the light levels exceed the ON or OFF lux set points.

### Starting Out

The TAP-17 Task Ambient Photosensor measures ambient light in a range of 0-510 lux (0 - 47 footcandles). The TAP-17K measures ambient light in the range of 0-1024 lux (0 - 95 footcandles), both models are intended for indoor use.

**NOTE: The TAP-17 is a solar powered device that absorbs solar energy storing it for use during low light periods. Before assigning the TAP-17 device to a receiver/controller, the device must be exposed to a good light source for a minimum of 2 hours.**

### Mounting the TAP-17

Even with a brief exposure to light the TAP-17 will operate for several days however for best results, the sensor should be mounted in a location that has some exposure to light on a daily basis. The TAP-17 can be mounted on any surface; ceiling, wall, desk, cubicle wall, etc. It should be placed so there is direct exposure to a window. The most common mounting location for photosensors is ceiling mount, centered with the window, about 4' from the wall. The TAP-17 must be installed in the space where the Echoflex ERDRC device is controlling the light fixtures or circuits. There are software tools online that can also assist in identifying the optimal location to mount photosensors.

The TAP-17 sensor can be mounted using screws (not supplied) through the back plate or using double sided tape or Velcro™.

The first and simplest method is to mount the photosensor 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 sensors 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 sensor over the mounting location and gently press to adhere.

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

1. Using a fingernail or small flat head screwdriver, pop the rear mounting plate off the sensor.
2. Using a drill suited to the wall anchor size ( #6 screw ), bore the holes in the wall board
3. Insert the wall anchors as per package recommendations, mount the back plate with the screws

4. Snap on the photosensor body to the mounting plate

**Learning a TAP-17 to a controller**

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

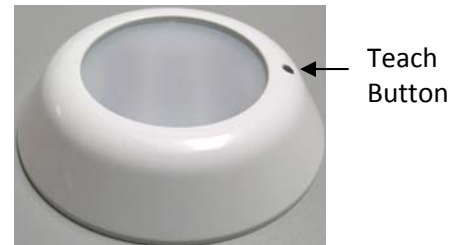
The controller has 4 labeled holes on the face plate.

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. Insert a small flat-head screwdriver or pen into the TEACH hole of the photosensor. 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 sensor	Follow the process of learning the sensor to the controller
The controller does not respond when the light level is either low or high	Consult the ERDRC installation guide to access the controllers lighting set points. Default set points are 25 lux → relay on, 100 lux → relay off, dimming modulation between 25 and 100 lux.
The controller does not respond to the sensor when in learning mode	Check for metal obstacles between the controller and sensor; 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>