

Installation Guide

This guide covers model numbers PTM265KCA and PTMKCAC.

The model PTM265KCA is equipped with EnOcean 315MHz radios and the PTM265KCA model has the EnOcean 868MHz radio.

Mounting the PTM265KCA

Identifying the mounting location for the key card switch.

1. The ideal height should be approximately in line with wall switches (125cm. or 49in. on center) to allow comfortable access to insert and remove the card. Pick a location near the door where occupants will enter and exit using the key card. A common location is on the opposing wall from the door hinges, 92 cm. (3 feet) from the door jamb.
2. Using a carpenters level, lightly mark two small dots with a pencil 5cm. (2") apart for the upper edge of the key card switch

There are two methods to mount the KCA

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

NOTE: Using Velcro may displace the switch from the wall a noticeable amount. Before removing the backing tape, test the switch against the wall with the Velcro in place.

1. Attach the tape or Velcro to the back surface using two pieces, each about 4cm. (1.5in.) in length; one along the top and the other on the bottom. 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 keycard switch on an angle with the switches back upper edge against the wall with the edge just covering the two pencil marks. Lower the switch against the wall surface and and gently press to adhere
4. Insert a card and test the switch/ relay mechanism. There should be an audible click with each insertion and retraction

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

1. Remove the two screws retaining the key card switch face plate to the switch
2. Locate the four mounting holes on the back plate and the orientation arrow indicating UP ↑. Hold the back plate in the mounting location and mark the wall with the four holes using a pencil. NOTE: Not all four holes are necessary
3. Using a drill suited to the wall anchor size (#6 screw), bore the holes in the wall board
4. Insert the wall anchors as per package recommendations, mount the back plate with the screws
5. Replace the key card face plate. NOTE: Do not over torque the face plate screws. This may prevent the internal switch mechanism from releasing when a card is removed.
6. Insert a card and test the switch/ relay mechanism. There should be an audible click with each insertion and retraction

Learning a key card switch to a controller

This process requires the controller to be mounted and 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 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. Using the switch or sensor that you want to LEARN to the controller, insert a card into the key card switch. 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 switches

1. 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 key card switch	Follow the process of learning a switch to the controller
The controller does not respond when the card is removed	If the faceplate screws are too tight, this may prevent the switch mechanism from releasing. Loosen the faceplates screws slightly. The relay will have an audible click when being engaged and released
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 http://www.echoflexsolutions.com/files/Reliablerangeplanning_0308.pdf