Instruction Bulletin

Centralite™ EMS Door Sensor

for Use with Centralite™ Energy Management Systems

INTRODUCTION

The Centralite™ Energy Management System (EMS) is comprised of EMS Thermostats, Door Sensors, Motion Sensors, and Ethernet Coordinators (ECs). The EMS reduces energy costs by minimizing HVAC usage when a guest room is unrented or vacant. The EMS allows continuous monitoring of all online devices within the property.

The EMS Door Sensor

The EMS Door Sensor consists of a base (containing the Zigbee radio, magnetic sensor, and battery) and separate magnet. The door sensor uses a CR-2 lithium battery.

Figure 1: Centralite™ Door Sensor

NOTE: Using this product in any manner other than outlined in this document voids your warranty. Centralite Systems is not responsible for any damage incurred as a result of misuse or abuse of this product. The Door Sensor must be installed by qualified personnel.

Figure 2: Door Sensor

KEY:
A. Magnet (Side view)
B. Alignment markers
C. Door sensor (Side view)
D. Access release (press)
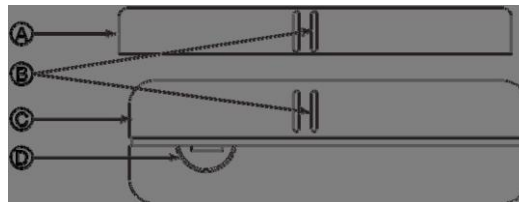
MOUNTING THE DOOR SENSOR

Mount the Door Sensor near or at the top of the door. Follow the steps below.

1. Press the access release tabs on the sides of the Door Sensor. See Figure 2. Remove and retain the door sensor base from the sensor.
2. Using #4 1/2" wood or sheet metal screws (not provided) install the base onto the door or door jam. There are two screw provisions on the base.
3. Using the double-sided adhesive tab provided, mount the magnet so that it is within 1/2" of the door sensor when the door is closed.
4. Install the battery into the sensor and snap the sensor onto the base.

   NOTE: Verify that the sensor is snapped fully onto the base.

Refer to the diagram for proper magnet and sensor alignment and orientation. Do not exceed the maximum mounting distance between the magnet and the sensor.

Figure 3: Mounting and Aligning the Door Sensor

KEY:
A. Magnet (Top view)
B. Alignment markers
C. Door sensor base (Inside view)
D. Screw provisions
E. Battery location

.5 in. (51mm) max. gap
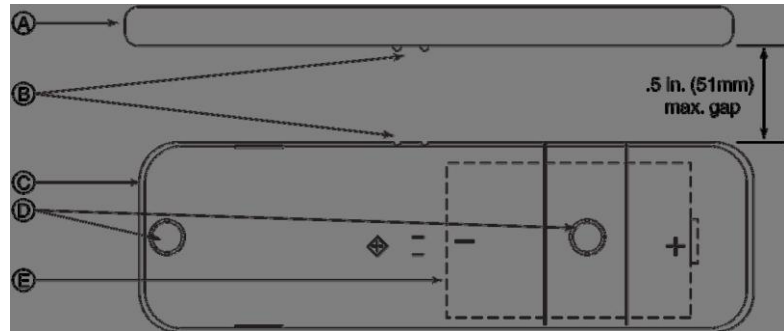
Note: It is very important that the base and magnet line up correctly and be within .5 in. (51 mm) when the door is closed.

PROGRAMMING

The Door Sensor must be restored to the factory default state before capturing it to the Room Area Network (RAN).

Restoring Sensors to Factory Default State

Follow the steps below to reset the Door Sensor to the factory default state.

1. Open the Door Sensor by pressing the access release tabs on the sides of the sensor.
2. Remove and retain the battery (if installed).
3. Locate the Programming Button found on the center of the circuit board. While pressing and holding the Programming Button, install the battery. The LED will blink.
4. After the LED stops blinking, release the button. The Door Sensor is now restored to the factory default state.

Capturing the Sensor to the Room Area Network (RAN)

1. With the thermostat Room Area Network (RAN) open for capturing, press the Programming Button 3 times. The LED should begin to flash several times. Verify that the sensor is successfully captured and indicated on the thermostat.
2. Test the sensor using the thermostat diagnostic/test screen to make sure the sensor is reporting accurate occupancy messages.
3. Replace the cover and verify that it is snapped fully onto the base.

Refer to the Centralite™ Energy Management System User's Guide for more information on programming.

BATTERY REPLACEMENT AND DISPOSAL

The Door Sensor uses a CR2 3V lithium battery No. 6206 (or equivalent). Follow the safety precautions below and all battery manufacturers' instructions when replacing the battery.

FIRE OR CHEMICAL HAZARD

The Lithium batteries used in this device may present a risk of fire or chemical burn if not handled properly.

- Do not recharge, disassemble, heat above 212 °F (100 °C), or incinerate.
- Recycle or properly dispose of used batteries.
- Replace with identical type.
- Follow all battery manufacturers' instructions.

Failure to follow these instructions can result in injury or equipment damage.

SPECIFICATIONS

Power	3V CR-2 Lithium Battery
Temperature range	-4° F to 140°F (-20°C to +60°C)
Communications	2.4 GHz, 16 channel spread spectrum radio frequency

DIMENSIONS

Component	Dimensions
Magnet	2.5 x 0.32 x 0.39 in. (63.5 x 8.1 x 9.9 mm)
Door Sensor	2.5 x 0.81 x 0.86 in. (63.5 x 20.5 x 21.8 mm)

STANDARDS

The Door Sensor complies with the following Standards:

Table 1: U.S. FCC Regulations

Standards/Regulations	Title
FCC Part 15	Class B Digital Device for Home or Office Use

FCC ID: TSL-DS001

*FCC ID number appearing on the product

CLASS B FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this device that are not expressly approved by Centralite could void the user's authority to operate this equipment.

CUSTOMER SERVICE

Contact the customer and technical support by phone at 1-800-466-5483

You may also find helpful information on our web site at www.centralite.com