

1. Product Description

This document describes the hardware installation procedures for the Allure EC-Sensor-T (temperature only); a space temperature sensor, inside an Allure enclosure (Figure 1-1), used to monitor room temperature.

The Allure EC-Sensor-T's modern, alluring profile enclosure is suitable for classrooms, hotels, executive areas, office spaces and other commercial areas. It consists only of a temperature sensor (thermistor), approximately 4.75 inches (12 cm) of wire and a clip with adhesive inside the enclosure (Figure 1-2).

Mounting hardware with a separate sub-base is provided with the device for installation on a dry wall or on an electrical junction box.



Figure 1-1: Allure EC-Sensor-T space temperature sensor



Figure 1-2: Inside the Allure EC-Sensor-T enclosure - temperature sensor (thermistor), approximately 4.75 inches (12 cm) of wire and a clip to hold thermistor/wire in place.

2. General Installation Requirements

For proper installation and subsequent operation of the Allure EC-Sensor-T sensor, pay special attention to the following recommendations:

- Upon unpacking the product, inspect the contents of the carton for shipping damages. **Do not install damaged sensors.**
- Allow for proper clearance of device enclosure and wiring terminals for easy access, hardware configuration and maintenance.
- The device is designed to operate under the following environmental conditions:
 - Operating temperature from 32°F to 122°F (0°C to 50°C)
 - Storage temperature from -4°F to 158°F (-20°C to 70°C)
 - Relative humidity from 0% to 90%, non-condensing.
- Ensure proper ventilation of device and avoid areas where corroding, deteriorating or explosive vapors, fumes or gases may be present. The device must be oriented with the ventilation slots towards the top.



Any type of modification to any Distech Controls product will void the product's warranty.

3. General Wiring Recommendations

- All wiring must comply with electrical wiring diagrams as well as national and local electrical codes.
- Use the screws, wall anchors, and wire nuts included for wall mounting and wiring.



Turn off power before any kind of servicing.

Total Quality Commitment

All Distech Controls product lines are built to meet rigorous quality standards. Distech Controls is an ISO 9001 registered company.

©, Distech Controls Inc., 2013. All rights reserved. Specifications subject to change without notice.

While all efforts have been made to verify the accuracy of information in this manual, Distech Controls is not responsible for damages or claims arising from the use of this manual. Persons using this manual are assumed to be trained HVAC specialist / installers and are responsible for using the correct wiring procedures and maintaining safe working conditions with fail-safe environments. Distech Controls reserves the right to change, delete or add to the information in this manual at any time without notice.

Distech Controls, the Distech Controls logo, Innovative Solutions for Greener Buildings, and Allure are trademarks of Distech Controls Inc. All other trademarks are property of their respective owners.

4. Mounting Instructions

The Allure EC-Sensor-T sensor has been specially designed for easy installation. However, certain conditions apply when choosing a suitable location for the device:

- Install the device in a location of average temperature approximately 5 ft (1.5 m) above the floor
- The device should not be installed on an exterior wall.
- The device should not be installed near a heat source.
- The device should not be installed near an air discharge grill.
- The device should not be installed in a place where it can be affected by the sun.
- Install the device in an area that provides proper device ventilation. Nothing must restrain air circulation to the device.



The Allure EC-Sensor-T sensor has not been designed for outdoor use.

Wall Mounting Installation Procedure

The Allure EC-Sensor-T sensor can be mounted on a dry wall using supplied screws.

1. Remove the security screw from the device (Figure 5-1).
2. Open the device by pressing in the two (2) tabs on the bottom of the device and pulling the bottom side of the front plate out.
3. Pull all cables 6" (15cm) out of the wall, and insert them through the central hole of the back plate.
4. Align the back plate with the wall and mark the location of the mounting holes on the wall. Make sure to orient the proper side of the back plate facing upwards.
5. Remove the back plate and drill holes in the wall if necessary.
6. Install anchors in the wall if necessary.
7. Make sure that the mounting surface is flat and clean.
8. Screw the back plate onto the wall. Do not over tighten.
9. Strip each wire if needed and connect each one according to the wiring diagram shown in this document (Figure 7-1).
10. Gently push excess wiring back into the wall.
11. Reattach the front plate and make sure it clips tightly into place.
12. Install security screw.

Electrical Junction Box Installation Procedure

The Allure EC-Sensor-T sensor can be mounted in most American, European or Asian style electrical junction box using screws.

1. Remove the security screw from the device (Figure 5-1).
2. Open the device by pressing in the two (2) tabs on the bottom of the device and pulling the bottom side of the front plate out.
3. Pull all cables 6" (15cm) out of the wall, and insert them through the central hole of the back plate.
4. Screw the back plate onto the electrical junction box.
5. Strip each wire if needed and connect each one according to the wiring diagram shown in this document (Figure 7-1).
6. Gently push excess wiring back into the electrical junction box.
7. Reattach the front plate and make sure it clips tightly into place.
8. Install security screw.

5. Device Components

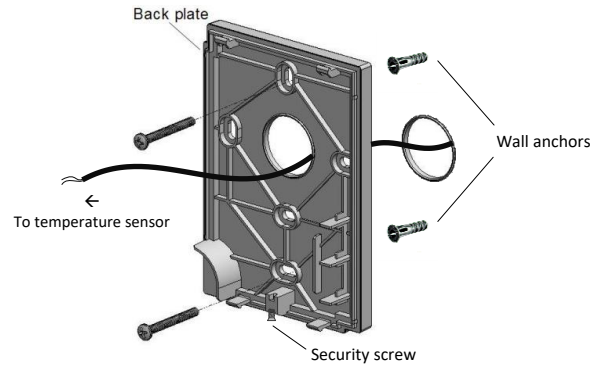


Figure 5-1: Mounting an Allure EC-Sensor-T

6. Device Dimensions

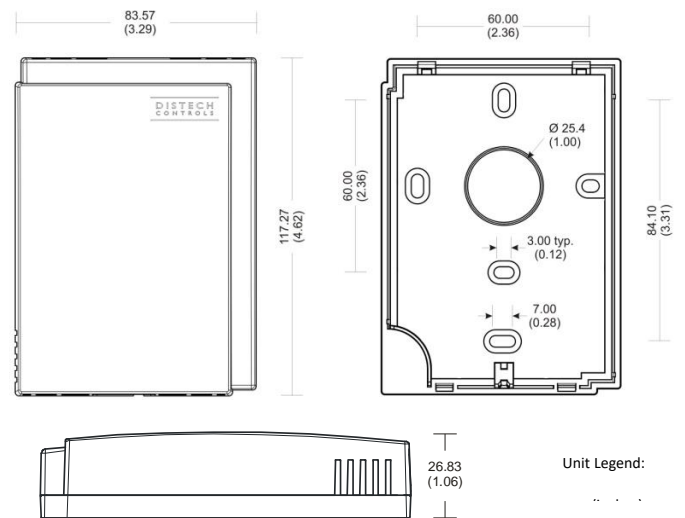


Figure 6-1: From top left to bottom: Front view, back plate, side view

7. Device Wiring

Wiring the Thermistor

The 10k Ω type 2 NTC thermistor is connected to the controller in the following manner using the wire nuts included with the Allure EC-Sensor-T:

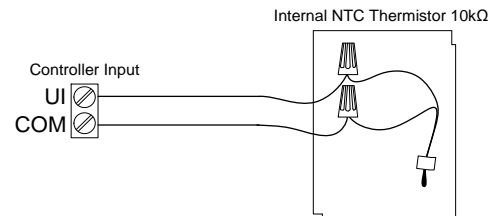


Figure 7-1: 10k Ω Type 2 NTC Thermistor Wiring