



# REMOTE TEMPERATURE BUTTON SENSOR INSTALLATION INSTRUCTIONS



**Model ZRTBS01**

*Compatible with LG Indoor Units except Wall-Mounted*

# SAFETY PRECAUTIONS

The instructions below must be followed to prevent product malfunction, property damage, injury or death to the user or other people. Incorrect operation due to ignoring any instructions will cause harm or damage. The level of seriousness is classified by the symbols below.

## TABLE OF SYMBOLS

 <b>DANGER</b>	<i>This symbol indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.</i>
 <b>WARNING</b>	<i>This symbol indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.</i>
 <b>CAUTION</b>	<i>This symbol indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.</i>
<b>Note:</b>	<i>This symbol indicates situations that may result in equipment or property damage accidents only.</i>
	<i>This symbol indicates an action that should not be performed.</i>

## INSTALLATION

### **DANGER**

**Don't use or store flammable gas or combustibles near the unit.**  
*There is risk of fire, explosion, and physical injury or death.*

## WIRING

### **DANGER**

**High voltage electricity is required to operate an air conditioning system. Adhere to the National Electrical Codes and these instructions when wiring.**  
*Improper connections and inadequate grounding can cause accidental injury or death.*

**Always ground the unit following local, state, and National Electrical Codes.**

**Turn the power off at the nearest disconnect before servicing the equipment.**

*Electric shock can cause physical injury or death.*

**Properly size all circuit breakers or fuses.**

*There is risk of fire, electric shock, explosion, physical injury or death.*

### **WARNING**

**The information contained in this manual is intended for use by an experienced, trained electrician familiar with the U.S. National Electric Code (NEC) who is equipped with the proper tools and test instruments.**  
*Failure to carefully read and follow all instructions in this manual can result in personal injury or death.*

**Secure all field wiring connections with appropriate wire strain relief.**

*Improperly securing wires will create undue stress on equipment power lugs. Inadequate connections may generate heat and cause a fire resulting in physical injury or death.*

**Properly tighten all power connections.**

*Loose wiring may overheat at connection points and cause a fire resulting in physical injury or death.*

### **Note:**

**The information contained in this manual is intended for use by an experienced, trained electrician familiar with the U.S. National Electric Code (NEC) who is equipped with the proper tools and test instruments.**  
*Failure to carefully read and follow all instructions in this manual can result in equipment malfunction or property damage.*

 **Do not cut, lengthen or shorten the button sensor cable.**  
 **Do not install the button sensor in a location where its cable cannot be safely and easily connected to the appropriate indoor unit.**  **Do not allow strain on this cable.**  
*Poor cable connections can cause equipment malfunction.*

# INSTALLATION INSTRUCTIONS

## Remote Temperature Button Sensor

The Remote Temperature Button Sensor, Model ZRTBS01, is a Type 2, NTC temperature sensor, providing fast and accurate temperature readings. As of 10-1-2020 the ZRTBS01 will be a Type 2 and no longer a Type 3. The NTC temperature sensor is suspended in a round enclosure that is easy to install and discreet, measuring less than an inch in diameter.

The sensor requires a 7/16" hole at its mounting location and is secured to the wall with a peel off tape strip. Only a flush 7/8" dot on the wall is visible. The sensor can be painted with typical interior wall paint, providing an aesthetically pleasing temperature measuring option.

The Remote Temperature Button Sensor is compatible with all LG indoor units except wall mounted units. The sensor and dimensions are shown in Figures 1 and 2 respectively.

⊘ Do not cover the sensor with wall paper.

Figure 1: Remote Temperature Button Sensor



## Installing the Sensor

### Note:

Once installed, the sensor is difficult to remove. Removing an installed sensor may damage the wall.

1. Select a location with a flat surface on an interior wall approximately 5' (1.5m) above the floor.
2. Ensure the wall interior is insulated behind the sensor. In-wall drafts can affect the temperature reading.

### ⚠ WARNING

Interior walls can contain high-voltage electrical wires. Ensure there are no electrical wires in the wall at the selected drilling location. Drilling into electrical wires can result in severe injury or death.

### Note:

Interior walls can contain water pipes, metal structural elements and other obstacles. Ensure there are no water pipes or other obstacles in the wall at the selected drilling location. Drilling into water pipes or other obstacles can result in wall damage.

3. Drill a 7/16" hole at the sensor mounting location.
4. Carefully pull the sensor cable through the hole (Figure 3).
5. Remove the cover of the mounting tape on the back of the sensor rim and push the sensor firmly into the 7/16" hole until the tape adheres firmly to the wall (Figure 3).

Figure 2: Dimensions

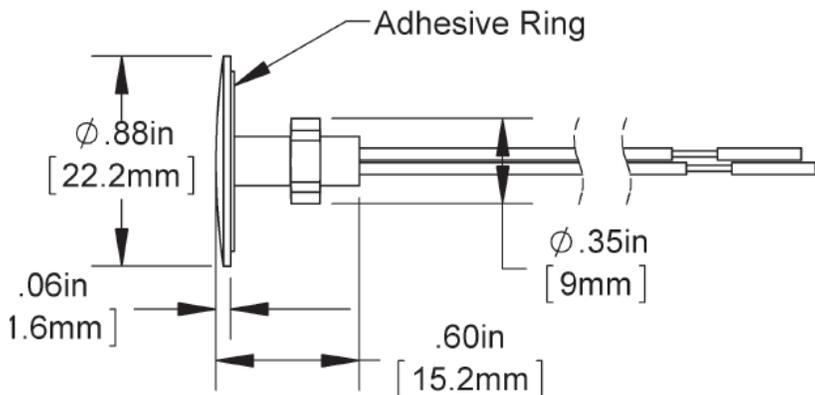
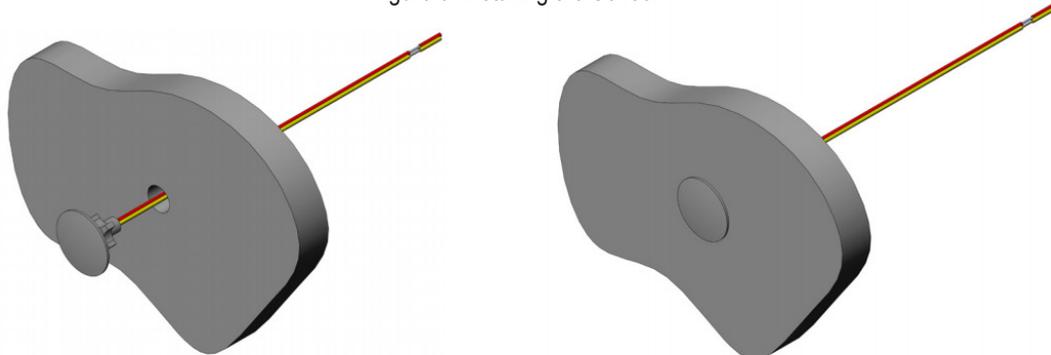


Figure 3: Installing the Sensor



# INSTALLATION INSTRUCTIONS

## ⚠ WARNING

The indoor unit uses high voltage power. Disconnect input power from the indoor unit before accessing the interior of the unit. High voltage electric shock can cause severe injury or death.

6. Disconnect the indoor unit's input power.
7. Remove the panel of the indoor unit to gain access to the indoor unit's control PCB (Figure 4).
8. Remove the indoor unit's room temperature sensor connector from the CN-ROOM connector on the control PCB (Figure 5).
9. Remove the unit's room temperature sensor and cable or, if desired, secure the cable and sensor inside the unit for possible later use. ⓧ Do not leave the cable and sensor loose in the unit.
10. Insert the remote temperature button sensor cable into the indoor unit through a cable access hole. ⓧ Do not use the same access hole as the power input cable.
11. ⓧ Do not cut the sensor cable. If the cable is longer than necessary, coil and secure excess cable.
12. Insert the connector of the remote temperature button sensor cable into the CN-ROOM connector on the PCB (Figure 5).
13. Use a cable tie or other method to secure the remote temperature button sensor cable inside the indoor unit. ⓧ Do not allow strain on the cable.
14. Reinstall the indoor unit's panel.
15. Apply power to the indoor unit.
16. Enable the remote temperature button sensor with the remote controller. Refer to the remote controller manual for instructions on how to properly set the function code.
17. Ensure the button sensor is reading at the controller after the function code has been set.

Figure 4: Typical Indoor Unit PCB Location

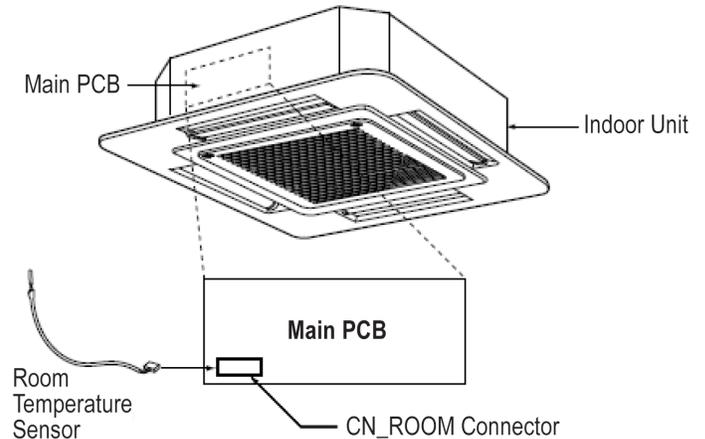


Figure 5: Connecting the Button Sensor to a Typical IDU PCB



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