



- move to the next item in the addressing sequence.
- Set the group (GRP) address.
- Set the Network (NET) address.
- Set the UC address (UC ADDRESS)
- Set the Sensor number (SENSOR #)

Press and hold the ADDR button for three (3) seconds to exit addressing mode.



Sensor Response

After addresses are set, the WCS will immediately attempt to join the network and associate with the controller.

Error code E2 will appear on the sensor display until the WCS successfully joins the network.

Note: The network must be open to allow the sensor to join. Error code E1 will be displayed until the sensor associates to the controller.



| Possible cause | Explanation/Resolution |
|--|---|
| Sensor is not associated with UC (E1) | Verify that the unit controller and WCI firmware are up to date. The configured address in the sensor does not match the dials of a UC for any WCI wireless network. Re-associate the sensor with the WCI by correcting the UC ad sensor. WCI WCS UC UC UC UC UC UC Match to UC |
| Sensor has not joine the network (E2) | Verify that the network is open. Normal for sensor configured with GRP-NET 0-0. Verify that the sensor has the correct group (GRP) and network (NET) addressed Verify that the sensor is within radio range. If the sensor has previously joined the network, verify that WCIs in range are p From the blank screen or error screen, press the UP arrow to force manual association/joining. Otherwise, set the correct GRP and NET addresses and open network to allow the sensor to join. |
| Sensor drains batter current during sleep (E3) | If the error persists and batteries drain prematurely, the sensor may have defective and need to be replaced. |
| Internal failure (E7) | Replace the sensor. |
| Wrong sensor addres (E8) | The configured sensor address does not match the sensor address that is expected Use Tracer TU to configure the UC for the quantity of sensors it should accept, if mo |
| Duplicate sensor (E9 | Another sensor with the same configured UC address and sensor address is already with the UC. Resolve the duplication. This may involve waiting (up to 51 minutes) to forget the address of a failed sensor. |



Changing the Batteries

Remove the cover as shown in panel 2. Remove the cells. Dispose of used cell promptly. Keep away from children.

ACAUTION

Avoid Risk of Fire! To reduce risk of fire, use only Energizer L91 lithium batteries.

ACAUTION

Fire Hazard!

The cells used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F), or incinerate.



Note: Batteries will last over 15 years in typical locations. Replace with Energizer L91 batteries.

6. Humidity Calibration Offset

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The humidity calibration offset is available if the RH module is installed on the WCS. You can adjust the humidity calibration offset in increments of +/- 0.1% RH to a maximum of +/- 5.0% RH. Use the UP and DOWN arrows to adjust the offset.



Manually Associating a Sensor to a UC

Pressing the **UP** arrow while on a blank or error screen forces the sensor to attempt a manual association to a UC. This is indicated by rotating segments on the display. After the manual association is accomplished, the signal strength is displayed. However, if the manual association fails, the unit displays an error code.

Note: The network must be open to allow a sensor to join.

Here is an example of excellent signal quality:



Here is an example of 100 - 50% battery life remaining:



Display Sequence

Pressing the **NEXT** button repeatedly will display the following settings in this order:

- 1. Blank screen or errors
- 2. CO₂ ppm (optional)
- 3. Temperature

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- 4. Temperature offset
- 5. % Relative Humidity (optional)
- 6. Humidity Offset (optional) 7. Motion Test

1. Blank Screen or Errors

This is the "Home" screen. It will be blank if there are no errors. If errors are present, it will show the error number.

Home screen with no errors



Home screen displaying an error code See "Error Codes" (Panel 6) for causes and solutions.



2. CO₂ PPM (Optional)

Displays CO₂ ppm for 1 minute, then the screen goes blank or displays an error code.

Notes:

- The CO₂ sensor has automatic calibration and altitude compensation. No calibration is required.
- It takes eight (8) days for a newly installed CO₂ sensor to acclimate to the environment and complete a calibration cycle.



3. Temperature:

Use the **UP** or **DOWN** arrow to toggle between °C and °F.



Motion Test

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In this mode, the display will count down from 120 seconds giving the installer 2 minutes to adjust the sensor position for proper range for the area. When motion is detected within the range of the beam, the sensor eye will glow red briefly.

Note: The red light comes on only during motion test mode. It does not come on during normal sensor operation.

If more time is needed than the default 120 seconds, you can press the UP arrow to add time in 30 second increments to a maximum of 600 seconds.





| This adjustment is necessary for both WCS-SO and WCS-SCO ₂ versions. The WCS-SCO ₂ version has a built-in occupancy sensor. It is used to reduce |
|--|
| |
| the number of CO ₂ samplings when the space is unoccupied to conserve battery life. |

Mount the sensor in a position where occupancy or CO₂ will be monitored. The maximum range for the occupancy sensor is 32 feet (10 meters). Set the sensor in Motion Test mode and wait for the red light to go off. Walk through the area and watch the sensor eye illuminate red indicating that your presence is sensed. Make any mounting adjustments to achieve the best overall position allowing the sensor to detect human traffic.

Agency Listings and Compliance

The European Union (EU) Declaration of Conformity is available from your local Trane® office.

4. Temperature Calibration Offset

The temperature calibration offset is adjustable in increments of 0.1 °F or 0.1 °C to a maximum of ±3.6°F or ±2° C).

Use the **UP** and **DOWN** arrows to adjust the offset.



5. % Relative Humidity

(Available as a field installed option.)



Use the following occupancy sensor coverage pattern to determine the best mounting position.



Note: This sensor coverage pattern also applies when occupancy sensing is activated on WCS-SCO₂ applications.

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