Installation, Operation, and Maintenance

Tracer® Zone Sensor Wireless/ Wired Communicating



⚠ SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

October 2026

BAS-SVX096A-EN

TRANE TECHNOLOGIES

Introduction

Read this manual thoroughly before operating or servicing this unit.

Warnings, Cautions, and Notices

Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of advisories are defined as follows:

⚠ WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.
NOTICE	Indicates a situation that could result in equipment or property-damage only accidents.

Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants.

Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

⚠ WARNING

Proper Field Wiring and Grounding Required!

Failure to follow code could result in death or serious injury.

All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state/national electrical codes.

⚠ WARNING

Personal Protective Equipment (PPE) Required!

Failure to wear proper PPE for the job being undertaken could result in death or serious injury.

Technicians, in order to protect themselves from potential electrical, mechanical, and chemical hazards, MUST follow precautions in this manual and on the tags, stickers, and labels, as well as the instructions below:

- **Before installing/servicing this unit, technicians MUST put on all PPE required for the work being undertaken (Examples; cut resistant gloves/ sleeves, butyl gloves, safety glasses, hard hat/ bump cap, fall protection, electrical PPE and arc flash clothing). ALWAYS refer to appropriate Safety Data Sheets (SDS) and OSHA guidelines for proper PPE.**
- **When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS and OSHA/GHS (Global Harmonized System of Classification and Labelling of Chemicals) guidelines for information on allowable personal exposure levels, proper respiratory protection and handling instructions.**
- **If there is a risk of energized electrical contact, arc, or flash, technicians MUST put on all PPE in accordance with OSHA, NFPA 70E, or other country-specific requirements for arc flash protection, PRIOR to servicing the unit. NEVER PERFORM ANY SWITCHING, DISCONNECTING, OR VOLTAGE TESTING WITHOUT PROPER ELECTRICAL PPE AND ARC FLASH CLOTHING. ENSURE ELECTRICAL METERS AND EQUIPMENT ARE PROPERLY RATED FOR INTENDED VOLTAGE.**

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⚠ WARNING

Follow EHS Policies!

Failure to follow instructions below could result in death or serious injury.

- **All Trane personnel must follow the company's Environmental, Health and Safety (EHS) policies when performing work such as hot work, electrical, fall protection, lockout/tagout, refrigerant handling, etc. Where local regulations are more stringent than these policies, those regulations supersede these policies.**
- **Non-Trane personnel should always follow local regulations.**

⚠ WARNING

Cancer and Reproductive Harm!

This product can expose you to chemicals including lead and bisphenol A (BPA), which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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General Information

This section provides a description of the sensors, as well as part numbers and dimensions.

Product Description

The Tracer® Zone Sensor brings together a wide range of valuable features in one sleek, flexible device. Every model includes accurate zone temperature sensing, with additional models to add space humidity, CO_2 monitoring, and occupancy detection for greater insight and control of the indoor environment. A modern touchscreen e-paper display is available for easy interaction, while non-display models offer a streamlined alternative. Designed to work seamlessly with Trane unit controllers, the sensor is available with either wired or wireless communication. Setup is simple and convenient with an intuitive mobile app. Configurable features include:

- Temperature units: Fahrenheit (°F) or Celsius (°C)
- Temperature resolution: 1.0, 0.5, or 0.1 degrees
- Ability to display setpoint only in which case, zone temperature does not display
- Single, dual, or no setpoint
- System settings: auto, off, cool, heat, emergency heat
- Deadband (heat/cool setpoint offset for dual setpoint systems)
- Fan settings: high, medium, low, auto, off
- Timed override request function
- Flexible lockout
- Equipment or device name

Compatibility

Wireless communicating sensors are compatible with 3rd generation WCI devices or WCI-ZS.

Wired communicating sensors are compatible with Trane unit controllers with applicable firmware versions:

- Symbio™ 210e/210 controllers v3 or greater
- Symbio 400/400B/500 controllers v3 or greater
- Symbio 800 controllers platform v8 or greater

Tracer® Quick Config App compatibility:

- Android 6.0 or later
- iOS 12.0 or later
- Smartphone with NFC capability
- Internet connection (for app download and updates)

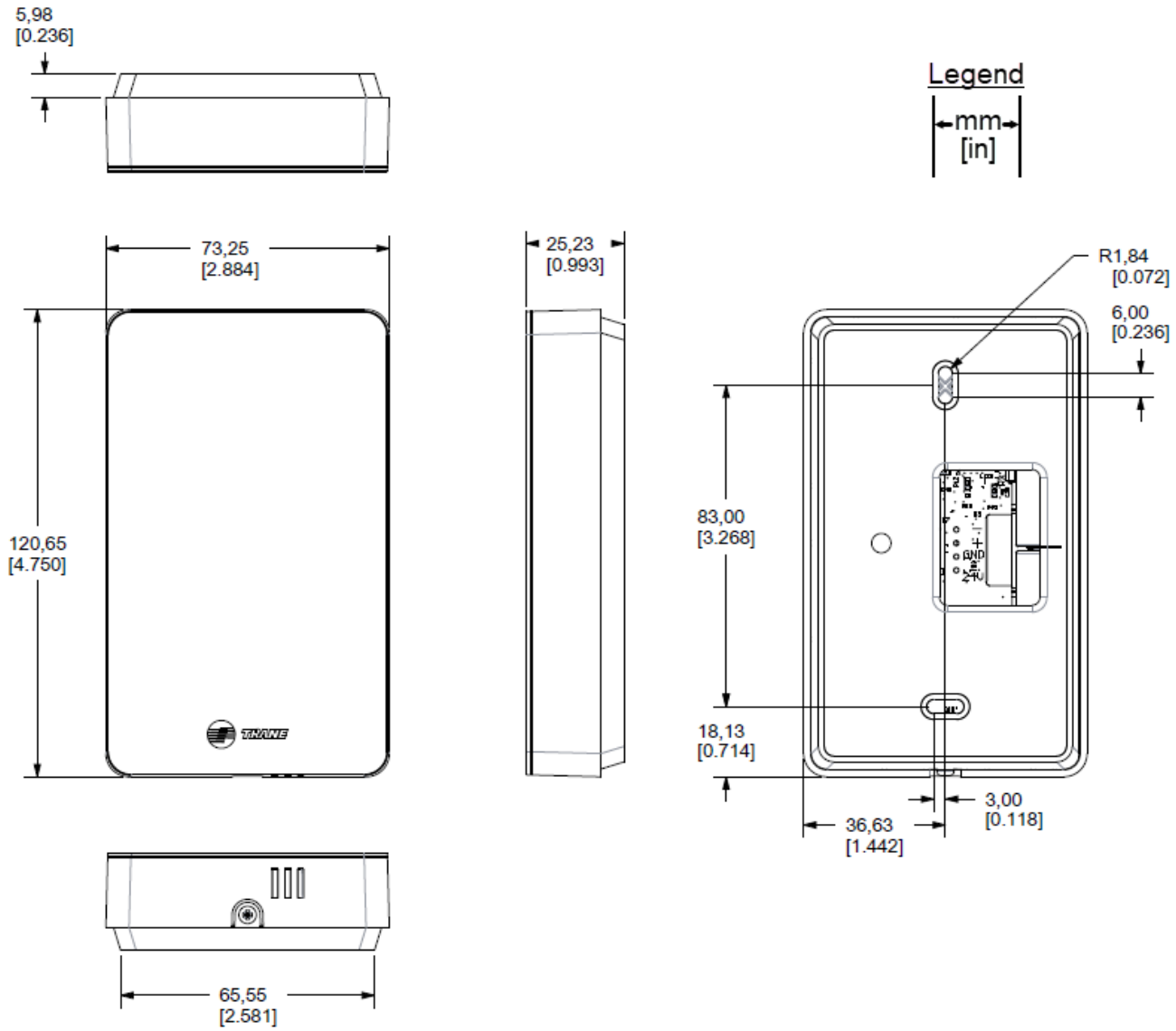
Part Numbers

Table 1. Part numbers

Model	Description	Part Number	Global Part
ZS-T-E-WL-B	Wireless communication temperature sensor with e-paper display	X13791097001	SEN03649
ZS-TH-E-WL-B	Wireless communication temperature and humidity sensor with e-paper display	X13791097002	SEN03650
ZS-THCO-E-WL-B	Wireless communication temperature, humidity, CO_2, and occupancy sensor with e-paper display	X13791097003	SEN03651
ZS-T-E-WR-B	Wired communication temperature sensor with e-paper display	X13791099001	SEN03655
ZS-TH-E-WR-B	Wired communication temperature and humidity sensor with e-paper display	X13791099002	SEN03656
ZS-THCO-E-WR-B	Wired communication temperature, humidity, CO_2, and occupancy sensor with e-paper display	X13791099003	SEN03657
ZS-T-N-WL-B	Wireless communication temperature sensor with blank cover	X13791098001	SEN03652
ZS-TH-N-WL-B	Wireless communication temperature and humidity sensor with blank cover	X13791098002	SEN03653
ZS-THCO-N-WL-B	Wireless communication temperature, humidity, CO_2, and occupancy sensor with blank cover	X13791098003	SEN03654
ZS-T-N-WR-B	Wired communication temperature sensor with blank cover	X13791100001	SEN03658
ZS-TH-N-WR-B	Wired communication temperature and humidity sensor with blank cover	X13791100002	SEN03659
ZS-THCO-N-WR-B	Wired communication temperature, humidity, CO_2, and occupancy sensor with blank cover	X13791100003	SEN03660

Dimensions

Figure 1. Dimensions



Pre-Installation

This section provides information about considerations that should be made prior to installing sensors.

Location Considerations

When selecting a sensor location, avoid the following:

- Areas of direct sunlight
- Areas in the direct airstream of air diffusers
- Exterior walls and other walls that have a temperature differential between the two sides
- Areas that are close to heat sources such as sunlight, appliances, concealed pipes, chimneys, or other heat-generating equipment
- Drafty areas
- Dead spots behind doors, projection screens, or corners
- Walls that are subject to high vibration
- Areas with high humidity
- High traffic areas (to reduce accidental damage or tampering)
- Placing the sensor inside metal enclosures

Height Requirements

The recommended maximum mounting height is 54 inches from the bottom of the back plate to the floor. If a parallel approach by a person in a wheelchair is required, reduce the maximum height to 48 inches.

Notes:

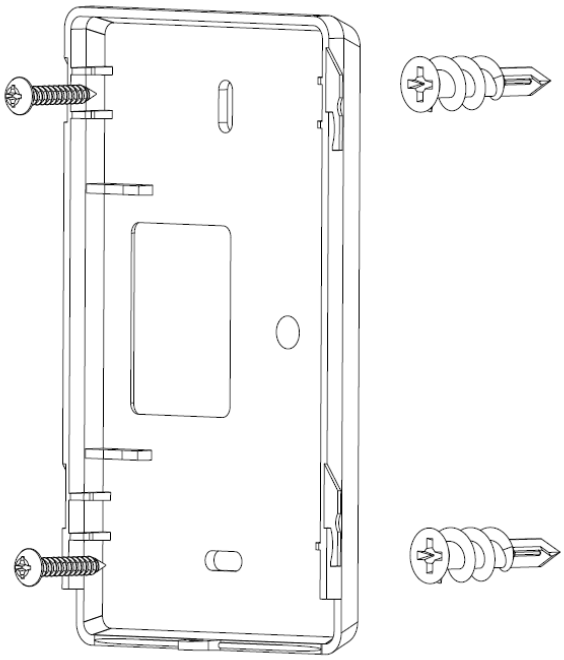
- *Consult section 4.27.3 of the 2002 ADA (Americans with Disability Act) guideline, and local building codes, for further details regarding wheelchair requirements.*
- *Sensors with Occupancy and/or CO_2 may need to be mounted higher.*

Mounting Surfaces

Using the hardware provided, mount the back plate of the sensor to a flat surface such as sheetrock or plaster, or to an electrical junction box. The sensor must be mounted plumb for accurate temperature control and to ensure proper air movement through the sensor.

- If mounting onto sheetrock or plaster, use the plastic threaded anchors (pre-drilling holes is not usually necessary) and the two M3.5 x 20 mm mounting screws.
- For mounting onto an electrical junction box, use the two 6-32 x 3/4-in. screws.
- If installing a wired communicating sensor, it is recommended to seal wire penetration with appropriate caulk or equivalent material to prevent drafts from affecting sensor accuracy.

Figure 2. Wall anchors

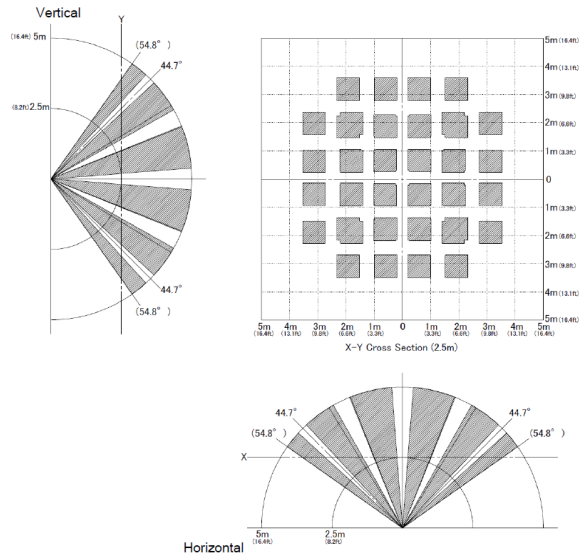


Occupancy Sensor Coverage

Occupancy sensor considerations:

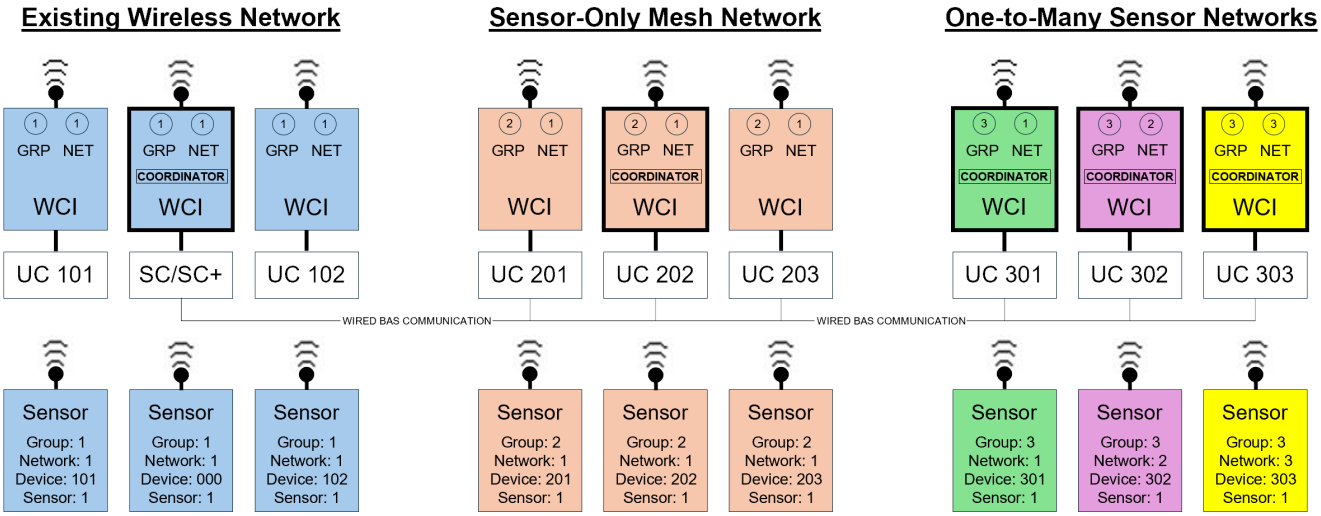
- Occupancy sensor range is 16.4 ft. (5 m)
- Occupancy sensor faces downward from the sensor location
- Ensure line-of-sight coverage to the controlled space
- Avoid obstructing the occupancy sensor window
- Consider space layout when placing the sensor for optimal coverage

Figure 3. Occupancy sensor coverage



Addressing

Figure 4. Network diagram



Wireless Network Requirements

One centrally located WCI on each wireless network must be configured as the network coordinator.

- For existing wireless networks, the WCI connected to the system controller is typically the coordinator for that wireless network.
- When creating a sensor-only mesh network, the WCI on one centrally located controller shall be configured as the coordinator.
- If a network for each controller is desired for associating up to six zone sensors with that controller (one-to-many sensor network), the WCI connected to each controller shall be configured as the coordinator.

For best performance, all WCIs and/or sensors in a wireless network should be located within 200 feet of the coordinator. For existing wireless networks, follow suggested device limits documented for those systems. In sensor-only mesh and one-to-many sensor networks, the total number of WCIs and sensors shall not exceed sixty (60).

Each network coordinator WCI shall be given a unique group-network (GRP-NET) assignment and each WCI and/or sensor associated with that network should be configured with GRP-NET values matching the network coordinator. Valid group numbers are 0 to 8 and valid network numbers are 1 to 8. For one-to-many sensor networks, consider how many unique networks will be required and ensure there are sufficient GRP-NET settings

available. For larger sites, design for sensor-only mesh networks instead to preserve available GRP-NET settings.

Each device can be associated with to up to six (6) zone sensors. Wireless zone sensors must be configured with the device address; the device address for sensors connected to the system controller is 000. All sensors connected to a device must have a unique sensor number. For wired communicating sensors, the sensor number is the only addressing configuration required.

Wireless Sensor Addressing

Addressing Parameters

Group (GRP):

- Range: 0-8 (9 is reserved and not used)
- Default: 1
- Must match the Group setting on the associated Wireless Communication Interface (WCI)

Network (NET):

- Range: 1-8 (0 and 9 are not valid)
- Default: 1
- Must match the Network setting on the associated WCI

Device Address:

- Range: 000-999
- Default: 001
- Must match the 3-digit rotary address on the unit controller (000 for system controller)

Sensor Number:

- Range: 1-6
- Default: 1
- Must be unique for each sensor connected to the same controller
- Used by controller to identify and average sensor readings

Note: *If using more than one sensor, controller must be configured for multiple sensors.*

Wired Sensor Addressing

The only addressing parameter needed for wired communication sensors is the sensor number. See above for details.

Pre-Installation Readiness Checklist

Before performing installation, the following items should be considered:

1. Verify Compatibility: Confirm that the zone sensor model is compatible with the installed controller.
2. Check NFC Capability: Verify your phone or tablet has NFC capability.
3. Obtain Mobile App: Download the Tracer® Quick Config App from Google Play (Android) or Apple App Store (iOS) on a compatible device.
4. Review Configuration Parameters: Gather required configuration information:
    - For wireless sensors: Desired Group (GRP), Network (NET), Device Address, and Sensor Number (1-6)
    - For wired sensors: Desired Sensor Number (1-6)
    - Temperature setpoint limits (cooling high/low, heating high/low)
    - Unit name and display preferences
    - Temperature units (°F or °C)

All zone sensor configuration, including addressing, is performed using the Tracer Quick Config App. This eliminates the need for physical keypads or complex setup procedures.

Key Benefits:

- Sensors can be configured with or without power
- Configuration is possible before the sensor is mounted
- Multiple sensors can be configured with the same settings via configuration sharing
- All settings are stored on the sensor itself via NFC technology

See Appendix A: Mobile App Operation for more information.

Installation

This section provides step-by-step installation instructions. Read through the pre-installation information before proceeding with installation.

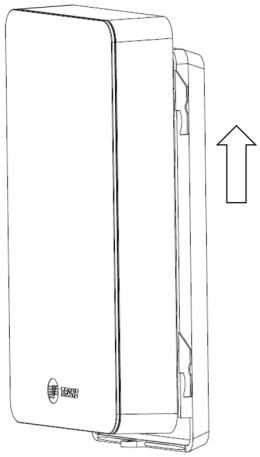
Mounting the Back Plate

To mount the sensor back plate:

1. Remove the sensor by sliding the sensor body upward and then away from the back plate.

   Note: *If present, remove the security screw before removing the cover.*

Figure 5. Removing sensor

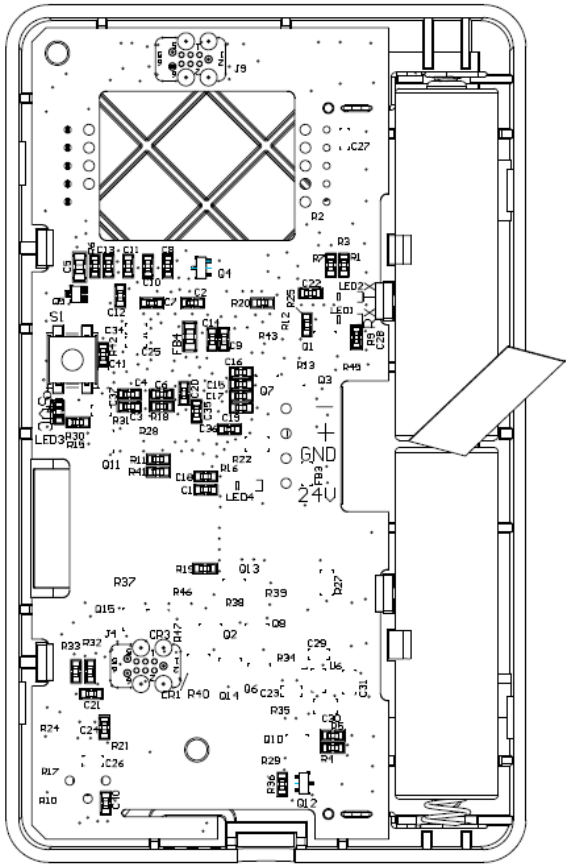


2. Hold the back plate against the mounting surface.
3. Use a level to ensure the back plate is mounted vertically.
4. Mark fastener holes on the wall surface using the back plate as a template.
5. Secure the back plate against the mounting surface using included hardware.

Battery Installation (Wireless Sensors Only)

1. Locate battery compartment on the back side of the sensor housing.
2. Locate and remove the protective strip between the batteries.

Figure 6. Removing strip

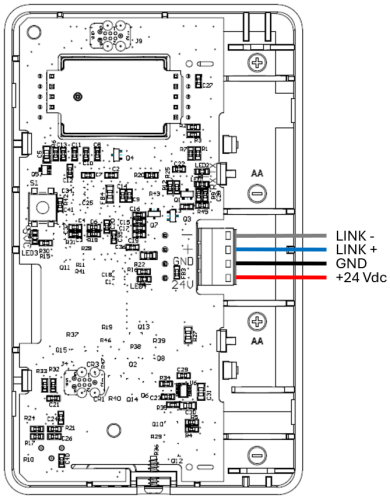


3. Verify the sensor powers on by unlocking display and touching menu button.

Wiring Installation (Wired Sensors Only)

1. Verify Power:
   - Ensure the 24 Vdc power supply is de-energized before making connections, usually by powering down the controller
2. Use 22 gauge wire for IMC and power connections.

Figure 7. Wiring diagram

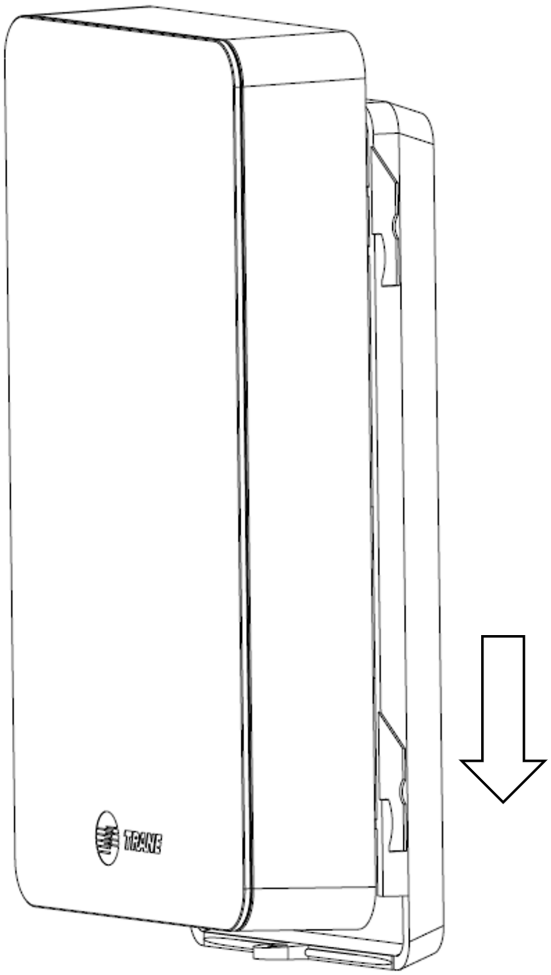


3. Remove connector to access screw terminals.
4. Secure Connections:
   - Ensure all wiring connections are tight and secure
   - Use appropriate wire gauges as specified in controller documentation.
5. Power On:
   - Energize the 24 Vdc power supply
   - Verify the sensor powers on by unlocking display and touching menu button.

Installing Sensor

1. Install sensor body on back plate by sliding sensor onto back plate, then down to lock in place.

Figure 8. Replacing sensor



2. Install security screw if desired.

Display Operation

This section only applies to models with e-paper display.

Lock Screen

When the sensor is at rest with no user interaction, the following information is displayed:

- Space temperature (or requested setpoint if configured)
- Menu icon

For Sensors with Occupancy Sensor:

- Display enters low-power state to preserve battery
- Motion detection activates the touchscreen and menu icon button

For Sensors Without Occupancy Sensor:

- Manual push button activates the touchscreen and advances the display to the home screen

Each time the display is unlocked, the sensor synchronizes data from the connected controller.

Home Screen

When the sensor is unlocked and active, the following information is displayed:

- Signal strength (wireless sensors)
- Battery status (wireless sensors)
- Unit name (if configured)
- Space temperature: large display of current measured temperature
- Active system mode (if connected controller includes Heat Cool Mode Status)
- Active space temperature setpoint (if connected controller includes Space Temperature Setpoint Active)
- Active fan status (if connected controller includes Supply Fan Status, Supply Fan Speed Status, or Supply Fan Staged Speed Status)
- Occupancy status (If connected controller includes Occupancy Status)
- Calculated dewpoint temperature (if sensor equipped with humidity)
- Space relative humidity (if sensor equipped with humidity)
- Space CO_2 concentration (if sensor equipped with CO_2)

Display Inactivity

If the user does not interact with the sensor for 30 seconds:

- Display returns to lock screen
- Touchscreen is disabled
- Wireless sensors enter low-power state

User Interaction with Display

Setting Temperature Setpoints

Single Setpoint Mode:

- Use + and - buttons to adjust the temperature setpoint
- Or tap the active setpoint value to adjust the requested setpoint
- Range is limited by the configured high and low limits

Dual Setpoint Mode:

- Use + and - buttons to adjust the temperature setpoint for the active mode
- Tapping the active setpoint value on the home screen allows adjustment of both cooling and heating setpoints
- Minimum separation (configured deadband) is enforced between the two setpoints.

Changing System Mode Request

- If the sensor is configured to allow user adjustment of system mode, the user can tap the active system mode on the home screen to select the desired mode.
- Available modes depend on configuration:
  - Off
  - Heat
  - Cool
  - Auto
  - Emergency Heat
- Select the desired mode from the list.

Changing Fan Mode Request

- If the sensor is configured to allow user adjustment of fan mode, the user can tap the active fan mode on the home screen to select the desired mode.
- Available modes depend on controller capability:
  - Off
  - Low
  - Medium
  - High
  - Auto
- Select the desired mode from the list.

Accessing Menu Options

- Tap the menu icon on the home screen.
- Navigate to desired menu option:
  - **Timed Override** - request timed override initiate or cancel
  - **Mode** - select system mode request

  - **Setpoints** - adjust space temperature setpoint(s)
  - **Fan** - select fan mode request
  - Settings
    - Sync - force synchronization with connected controller
    - About - view more sensor information
- Use navigation controls to move between screens.

Specifications

Table 2. Specifications

General Specifications	
Storage and operating temperature	32 to 122°F (0 to 50 °C)
Storage and operating humidity range	5% to 95% relative humidity (RH), non-condensing
Housing material	Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend (not suitable for plenum mounting) UL 94: 5 VA flammability rating
Mounting	Fits a standard 2-in. by 4-in. junction box (vertical mount only). Mounting holes are spaced 3.2-in. (83 mm) apart on vertical center line. Includes mounting screws for junction box and wall anchors for sheet-rock walls.Overall dimensions: 2.9-in (73 mm) by 4.8-in. (121 mm)
Wireless Communication Sensor Specifications (wireless sensors only)	
Range	Typical range is 200 ft (61 m); actual range is dependent on the environment.
Output power	100 mW
Radio frequency	2.4 GHz (IEEE Std 802.15.4-2003 compliant) (2405–2480 MHz, 5 MHz spacing)
Radio channels	16
Sensor battery	Two (2) AA lithium 1.5 V batteries, 2800 mAh with an expected life of 10 years under typical operating conditions
Address range	001 to 999
Maximum time between transmissions	15 minutes
Minimum time between transmissions	10 seconds. Time between transmissions can be shorter during user interaction.
Wired Communication Sensor Specifications (wired sensors only)	
Voltage	24 Vac/Vdc nominal ±10%. If using 24 Vdc, polarity must be maintained.
Power consumption	< 1.0 VA
Space Temperature Sensor Specifications	
Accuracy	±0.18°F for a range of -40 to 257°F (-40 to 125°C)
Setpoint functional range	45°F to 95°F (7.22°C to 35°C)
Relative Humidity Sensor Specifications (if equipped)	
Accuracy	±1.0 %RH (typical)
Hysteresis	±0.8 %RH (typical)
Response time	4 seconds
Long-term drift	<0.2% RH/year
CO_2 Sensor Specifications (if equipped)	
CO_2 range	0 – 10,000 ppm CO_2
Accuracy	±50 ppm CO_2 + 3% of reading (includes repeatability)
Pressure dependence of output	1.6% reading per kPa deviation from normal pressure
Response resolution	50 ppm change or 15 minute heartbeat
Life expectancy	15 years
Operating temperature	From 32°F to 122°F (0°C to 50°C)

Table 2. Specifications (continued)

Storage temperature	From –40°F to 158°F (-40°C to 70°C)
Humidity range	20% to 60% RH
Motion Sensor Specifications (if equipped)	
Coverage patterns	See Operating sensor coverage figure
Occupied timeout delay	Average 10 minutes after motion is detected (not adjustable)
Maximum detection range	19.7 feet (6 m)

Appendix A: Mobile App Operation

Mobile App Installation

Downloading the Mobile App

1. Open the app store (Google Play for Android, Apple App Store for iOS).
2. Search for **Tracer® Quick Config**.
3. Tap **Install** or **Get**.
4. Wait for the installation to show complete.
5. Tap the app icon to open.
6. Review and accept any license agreements or terms of service.
7. The app is ready to scan and configure sensors.

Addressing Wireless Sensors

1. Scan the sensor.
    a. Tap **Scan Sensor** or **Connect to Device**.
    b. Hold the mobile device within 1-inch of the zone sensor's NFC tag. The app confirms connection with a visual or audible signal.
2. Swipe up from the bottom of the page to expand the configuration settings.
3. Review the current settings. The App displays the current address parameters for the sensor. For a new sensor, default values are shown.
4. Edit the addressing parameters.
    a. Select the fields to modify Group, Network, Device Address, and Sensor Number.
    b. Use the on-screen controls to adjust the value.
    c. Alternatively, tap the value field and use the phone's keyboard to enter a new value directly. The app validates entries and provides guidance for invalid entries.
5. Confirm the settings.
    a. Verify all addressing parameters are correct.
    b. For wireless sensors, verify group and network match the WCI settings.
    c. For all sensors, verify the device address matches the controller rotary address.
6. Write to the sensor.
    a. Tap **Write to Device**.
    b. Hold the mobile device within 1 inch of the sensor's NFC tag.
    c. Wait for confirmation that the data has been written successfully. The app displays **Write Successful** or a similar confirmation message.

Addressing Wired Sensors

Wired sensors require Only the sensor number must be configured for wired sensors.

1. Scan the sensor.
    a. Tap **Scan Sensor** or **Connect to Device**.
    b. Hold the mobile device within 1 inch of the zone sensor's NFC tag. The app confirms connection with a visual or audible signal.
2. Set the sensor number. The app displays the current sensor number (default: 1). Wired sensors support sensor numbers 1 through 6.
    a. Edit the sensor number if multiple wired sensors are connected to the same controller.
3. Write to the sensor.
    a. Tap **Write to Device**.
    b. Hold the mobile device within 1 inch of the sensor's NFC tag.
    c. Wait for confirmation that the data has been written successfully. The app displays **Write Successful** or a similar confirmation message.

Note: *Each controller can be configured for up to 6 wired sensors on the IMC bus. Verify each sensor has a unique sensor number. The controller will automatically average readings from multiple sensors.*

Configuration Settings

Beyond addressing, the mobile app allows configuration of display and operation preferences:

Display Configuration

- **Show Temperature**: Enable/disable display of current space temperature on the lock and home screens.
- **Show Setpoint**: Enable/disable display of requested temperature setpoint.
- **Show Humidity**: Enable/disable display of space relative humidity (if supported).
- **Show CO_2**: Enable/disable display of CO_2 concentration (if supported).
- **Temperature Units**: Select °F (Fahrenheit) or °C (Celsius).
- **Temperature Display Resolution**: Select whole degrees, half degrees, or tenths.

  Note: *Display resolution affects screen update rate. Values other than whole degrees on wireless sensors will affect battery life.*
- **Temperature Offset**: Calibrate displayed temperature with offset range of -3.6 to +3.6 °F (-2.0 to +2.0 °C).

Setpoint Configuration

- **Setpoint Type**: Select Single (one setpoint) or Dual (separate heating and cooling setpoints).
- **Occupied Cooling Limits**: Set high and low limits for cooling setpoint (45 to 95 °F / 7 to 35 °C).
- **Occupied Heating Limits**: Set high and low limits for heating setpoint (45 to 95 °F / 7 to 35 °C).
- **Setpoint Deadband**: Set minimum difference between heating and cooling setpoints (0 to 10 °F / 0 to 5.5 °C) for dual setpoint mode.

Display Access Control

- **Display Lock**: Lock the display to prevent user adjustments (for public spaces).
- **Setpoint Lock**: Prevent users from adjusting the temperature setpoint.
- **System Mode Lock**: Prevent users from changing the system mode (Heat/Cool/Auto/Off).
- **Fan Mode Lock**: Prevent users from changing the fan mode (such as Auto/On/Off.).
- **NFC Writes**: Enable or disable NFC writes to the sensor to prevent unauthorized reconfiguration. This setting can be configured while sensor is unpowered, but sensor must be powered before setting will take effect.

Language Selection: Configure the language displayed on the sensor (available languages depend on sensor configuration).

Mobile App Operation

The Tracer® Quick Config App provides full control and monitoring of all zone sensors:

Scanning a Sensor

1. Open the Tracer Quick Config App.
2. Tap **Scan Sensor** or **Connect to Device**.
3. Position your NFC-enabled phone within 1 inch of the sensor's NFC tag.
4. Hold steady until the app signals connection success. The app displays all sensor data and configuration options.

Monitoring Sensor Status

The app displays real-time information:

- Current temperature and setpoint
- Battery status (wireless sensors)
- Signal strength (wireless sensors)
- Connection status to controller
- System mode and fan status
- Sensor configuration parameters

Editing Configuration

1. Scan the sensor (see above).
2. Navigate to the configuration screen by swiping up from the bottom of the page.
3. Tap the field to edit.
4. Modify the value using on-screen controls or keyboard entry.
5. Tap **Write to Device** and hold the phone close to write changes to the sensor.

Configuration Sharing

Copy configuration from one sensor to multiple others:

- Scan the source sensor (the one with desired settings)
- Slide selector switch from single write to multiple write mode.
- For wireless sensors, the app will automatically increment the Device Address setting.
- Check or uncheck boxes to select which values will be sent and update those values if they should be different for the next sensor.
- Tap button to write to the next sensor and hold phone close to that sensor to complete the write operation.
- Repeat process for remaining sensors.

This feature is useful for configuring multiple similar zones quickly.

Appendix B: Common Error Codes

Table 3. Error codes

Possible Cause	Explanation/Resolution
Sensor is not associated with UC (**E1**)	• Verify 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 in the same wireless network. Re-associate the sensor with the WCI by correcting the UC address in the sensor.
Sensor has not joined the network (**E2**)	• Verify the network is open. • Normal for sensor configured with GRP-NET 0-0. • Verify the sensor is within radio range. • If the sensor has previously joined the network, verify that WCIs in range are powered up. Unlock sensor to initiate controller sync. Otherwise, set the correct GRP and NET addresses and open the wireless network to allow the sensor to join.
Sensor drains battery during sleep (**E3**)	If the error persists and batteries drain prematurely, the sensor may have defective components and may need to be replaced.
Internal failure (**E7**)	Replace the sensor.
Wrong sensor address (**E8**)	The configured sensor address does not match the sensor address that is expected by the UC. Use the appropriate service tool software to configure the UC for the quantity of sensors it should accept, if more than one.
Duplicate sensor (**E9**)	Another sensor with the same configured UC address and sensor address is already associated with the UC. Resolve the duplication. The may involve waiting (up to 51 minutes) for the UC to forget the address of a failed sensor.

Notes

Trane - by Trane Technologies (NYSE: TT), a global innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.

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BAS-SVX096A-EN 31 Oct 2026
Supersedes (New)

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