



# Installation Instructions

## Trane® Wi-Fi Module

The Trane Wi-Fi module kit (equipped with a USB cable) enables communication among devices on a Wi-Fi network. The module can be used one of two ways:

Host mode — A designated Trane controller serves as the local wireless network for other Wi-Fi devices. Use this mode:

- On a site where an IT department or a wireless network is unavailable.
- To connect an equipment controller to a device for a service interface.
- To connect to the Tracer® Concierge™ Display.

Client mode — A designated Trane controller connects to an existing wireless network (typically managed by the customer.) Requires the same permissions as any other Wi-Fi device to access the network.

**Important:** This WiFi module is not supported in all versions of controller software. If the module is not recognized by the Tracer SC+ or Symbio controller, refer to HUB-187993 for more information.

Model Number:	Used With:
X13651743001	(Wi-Fi Field Install Kit 1 m cable 70 C)
X13651743002	(Wi-Fi Field Install Kit 2.9 m cable 70 C)
X13651705001	(for Symbio controllers only - Will NOT WORK with Tracer SC+)

**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.

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### Warnings, Cautions, and Notices

Read this manual thoroughly before operating or servicing this unit. 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
- 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-including industry replacements for CFCs such as HCFCs and HFCs.

### 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.

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**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 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 Labeling 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.

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### Packaged Contents

- One (1) Trane Wi-Fi module
- One (1) USB cable
- One (1) installation sheet

### Specifications

Table 1. Wi-Fi module specifications

Storage Environment	
Temperature:	-67°F to +185°F (-55°C to +85°C)
Operation Environment	
Temperature:	-40°F to +158°F (-40°C to +70°C)

**Table 1. Wi-Fi module specifications (continued)**

Operation Environment	
Humidity:	5% to 100% RH (condensing)
Ingress Protection:	IP56
Power:	5V @ 250mA from the USB Host port, Class 2
Mounting:	1-inch conduit knockout
Product weight:	0.2kg (0.4lb)
Installation:	Category 3
Purpose of control:	Operating Control
Construction of control:	Independently Mounted Control
Pollution Degree	4
Impulse Voltage	330 V
Communication	
Range:	Open field: 300ft/92m IEEE 802.11b/g/n
Frequency:	2.4GHz

## Installing the Wi-Fi Module

**Note:** The Wi-Fi module fits through a 1-inch conduit knockout.

- Depending on your site installation, insert the Wi-Fi module into a 1-inch knockout or conduit.
- Tighten the nut prior to connecting the USB cable.  
Tighten as needed to achieve 15 to 25% compression of the gasket. Acceptable gasket thickness: 1.19 to 1.35 mm (0.047 to 0.053 inch).
- Connect the USB cable to the Wi-Fi module by lining up the connector, then pressing together and twisting the locking bushing a quarter turn to the right.
- Connect the other end of the USB cable to a USB port on the controller.

## Best Practices

- For AP mode, Wi-Fi channel selection should be made with knowledge of how nearby networks are configured in order to prevent interference. Review and approval by the local network owners may be required.
- Be aware of other radio sources that may reduce Wi-Fi performance. 2.4 GHz cordless phones, microwaves, Bluetooth radios, and Zigbee radios can interfere with Wi-Fi signals.
- Radios that are located closely together may result in a reduction in performance. In general, maintaining a minimum of 2 meters between Wi-Fi radios will prevent this issue.
- The use of a USB cable extender with the supplied cable is not recommended.

## FCC Compliance

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 interferences that may cause undesired operation.

Contains:

FCC ID: TPF-302901

IC: 6178A-302901

## Agency Listings and Compliance

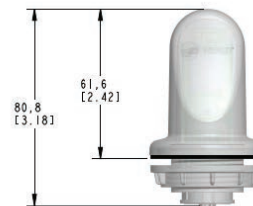
The European Union (EU) Declaration of Conformity is available from your local Trane® office.

- UL60730-1 PAZX
- UL Listed - Open Energy Management Equipment

## Important:

- Route the USB cable as such that it will not be damaged by panel doors or similar obstructions. Severely kinked, cut, or otherwise damaged cables should be replaced even though they appear to be in working order.
- Do not route the USB cable in close proximity with electrically noisy cables such as AC power (24, 120, 240 VAC, etc.), or wires that are switched by relays or contactors. Maintain a minimum distance of 150 mm between the USB cable and these types of cables and wires.

## Kit Components and Dimensions

**Figure 1. Wi-Fi module kit components****Figure 2. Wi-Fi module dimensions**

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