



## Installation Instructions



### Wired Controller for the Trane® Variable Water Flow System

Description	Model number
Wired controller	400031980200
7 m cable	400031990100
15 m cable	400031990200

#### 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.

January 2013

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MS-SVN32D-EN

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## Cautions, Warnings and Notices

#### 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 may also be used to alert against unsafe practices.

#### NOTICE

Indicates a situation that could result in equipment or property-damage only accidents.

## Overview

The wired controller is used to control air distribution in cassette and concealed fan coil units that are part of a Trane Variable Water Flow System.

## Installation Specifications

<b>Mounting</b>	Flush or surface wall mounting with standard 86 mm junction box (not provided)
<b>Operating Environment</b>	Temperature: 0°C to 50°C (32°F to 122°F) Humidity: 10% to 90% relative humidity, non-condensing
<b>Storage Environment</b>	Temperature: -10°C to 60°C (14°F to 140°F) Humidity: 5% to 95% relative humidity, non-condensing
<b>Enclosure</b>	Resin plastic, non-plenum
<b>Dimensions</b>	Height: 86 mm (3.39 in.) Width: 86 mm (3.39 in.) Depth: 18 mm (0.71 in.)

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## Alarm Buzzer Setting

Before installing the wired controller, set switch SW7-1 to the alarm buzzer mode desired. If SW7-1 is On (1), the buzzer will sound if an alarm condition is detected. If SW7-1 is Off (0), the buzzer will remain silent.

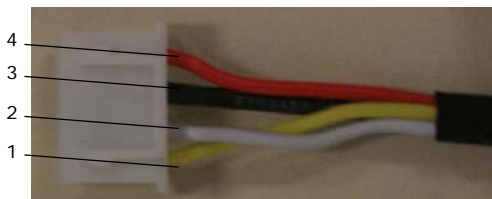
**Note:** SW7-2 is not used.



SW7-1

## Power and Communication Cable

Electrical power and communication are provided by an included 4-wire cable. The cable is available in 7 m (23 ft) and 15 m (49 ft) length.



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## Cable details

Connection	Terminal	Name	Color	Description
Communication	1	TX	Yellow	Data from wired controller to indoor unit
	2	RX	White	Data from indoor unit to wired controller
Power	3	GND	Black	Ground
	4	+12V	Red	+12 Vdc from indoor unit

## Select Mounting Location

Select a mounting location according to the following criteria:

- Should be accessible to authorized people but not accessible to unauthorized people.
- Should not be directly exposed to sunlight or cold or hot air flow from appliances, HVAC equipment, diffusers, or drafts.
- Should not be on exterior or other walls with a large temperature differential on the other side.
- Should not be in air flow dead spots, such as behind doors or projector screens, or close to interior corners of rooms.
- Should not be more than 54 in. (137 cm) above the floor. (Or not more than 48 in. (123 cm) above the floor considering wheelchair access. See section 4.27.3 of the 2002 Americans with Disabilities Act guideline for complete information about accessibility.)
- Should be on a wall where cabling can be routed inside of the wall space into the controller or junction box, if used.

## Mount Controller

1. Use a flat-blade screwdriver to gently pry apart the back and front cover of the controller.
2. Make sure that the four-wire cable is routed from the unit to the junction box or the opening that will be behind the controller.
3. Secure the back plate of the controller to the junction box using the fasteners provided with the junction box. Make sure the 4-wire cable is pulled through the rectangular hole in the back cover.

Back with cover attached



Back with cover removed



4. Insert the end of the cable into connector CN1 of the controller circuit board. Verify that the cable is not pinched or broken.

Cable through back cover and connected to circuit board



5. Insert the other end of the cable into the appropriate socket of the indoor unit circuit board according to the instructions provided with the unit.
6. Reattach the front cover to the back cover:
  - a. Insert the two tabs on the upper inside of the front cover into the two slots on the upper side of the back cover.
  - b. Press the lower part of the front cover downward and snap into the back cover.

## Maintenance

Clean the outside surface of the module using a damp cloth. Do not use spray or directly apply cleaning liquids that may contain harmful detergents.



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