



## Installation Instructions

# Stand-alone Operator Display

Order Number: 4950 0468 (Includes Operator Display Cable and Pigtail Connector)

The stand-alone operator display can be installed locally (within 10 ft [3 m]) on the Tracer Summit™ BMTX building control unit (BCU), the Tracer® MP580/581, or the AH540/541 controller and remotely (within 150 ft [46 m]) of its controller.

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**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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## 1 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 against unsafe equipment or property-damage only accidents.
- 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. 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.

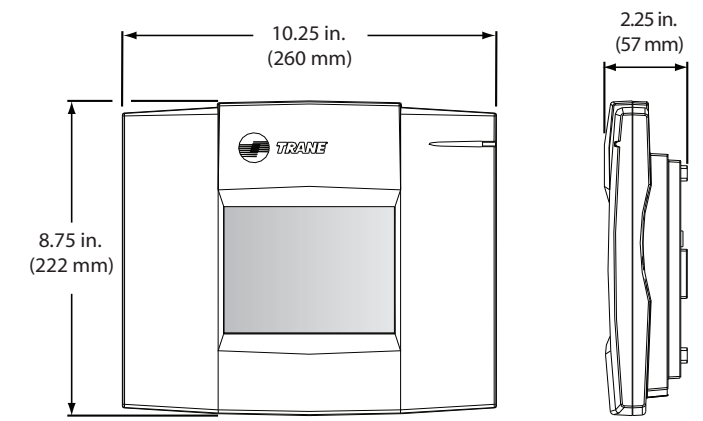
## 2 WARNING

**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 Required!**  
Installing/servicing this unit could result in exposure to electrical, mechanical and chemical hazards. Before installing/servicing this unit, technicians MUST put on all Personal Protective Equipment (PPE) recommended for the work being undertaken. ALWAYS refer to appropriate SDS sheets and OSHA guidelines for proper PPE. When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS sheets and OSHA guidelines for information on allowable personal exposure levels, proper respiratory protection and handling recommendations. If there is a risk of arc or flash, technicians MUST put on all necessary Personal Protective Equipment (PPE) in accordance with NFPA70E for arc/flash protection PRIOR to servicing the unit. Failure to follow recommendations could result in death or serious injury.

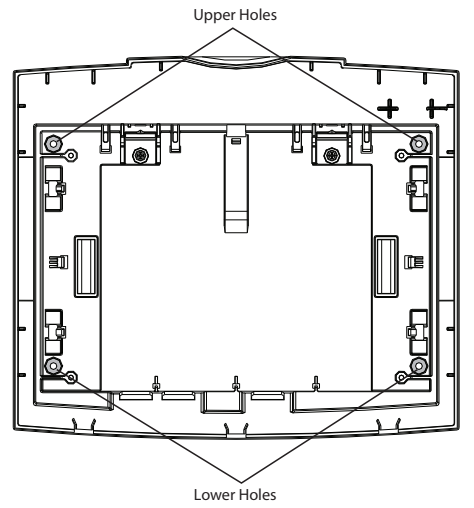
## 3 Local Installation Using the Operator Display Cable

Before starting local installation, verify that the location will accommodate the dimensional size of the stand-alone operator display as shown below.



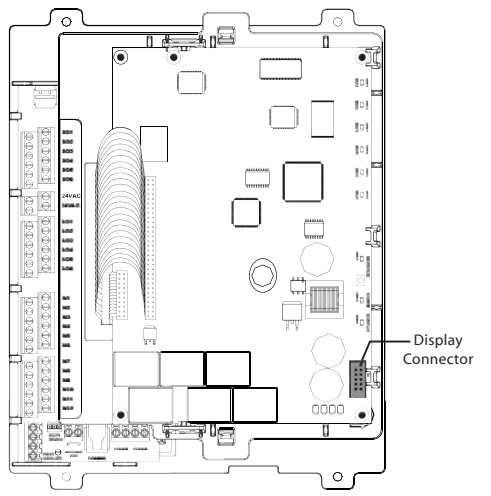
1. Unsnap the plastic back panel from the display module.
2. Disconnect the operator display cable from the display connector in the display module.

## 4 3. Using the back panel as a template, mark the position of the four (4) mounting holes on the mounting surface as shown below.



4. Set the back panel aside and drill holes for #8 (4 mm) screws or #8 wall anchors.
5. Secure the back panel to the wall with #8 (4 mm) mounting screws (not supplied).
6. The operator display cable is keyed to the display connector. Before performing step #7, ensure the key and slot line up before pressing them together.
7. Connect the operator display cable to the display connector in the display module and then snap the display module in place.
8. Run the operator display cable to the controller and secure it to the wall with wiring staples or wire mold.

## 5 9. Feed the operator display cable into the controller enclosure and attach it to the display connector on the controller circuit board as shown below. The stand-alone operator displays turns on.



## 6 Remote Installation Using the Pigtail Connector

**WARNING**  
**Hazardous Voltage!**  
Disconnect all electrical power, including remote disconnects, before servicing. Follow proper lockout/tagout procedures to ensure the power cannot be inadvertently energized. Failure to disconnect power before servicing could result in death or serious injury.

If installing the stand-alone operator display up to 150 feet (46 m), the customer must supply 4-conductor wire, or alternatively, three, twisted-pair wires of the appropriate length.

**Note:** A 4-conductor wire is recommended for remote installation.

Recommended, 4-Conductor Wires:

- Plenum 18 AWG, Trane PN 400-2059
- Plenum 22 AWG, Trane PN 400-2020
- Non-plenum, Trane PN 400-1005

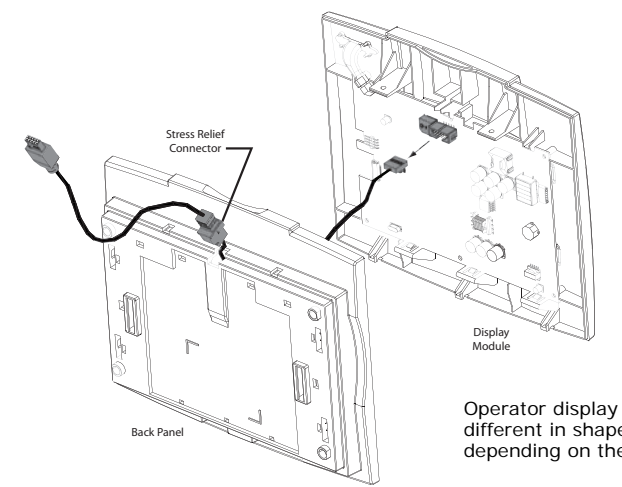
Recommended, Twisted-pair Wire:

- Trane PN 400-2028

Before starting remote installation, verify that the location accommodates the dimensional size of the stand-alone operator display shown in Panel 3.

1. Unsnap the plastic back panel from the display module.
2. Disconnect the operator display cable from the display connector in the display module.

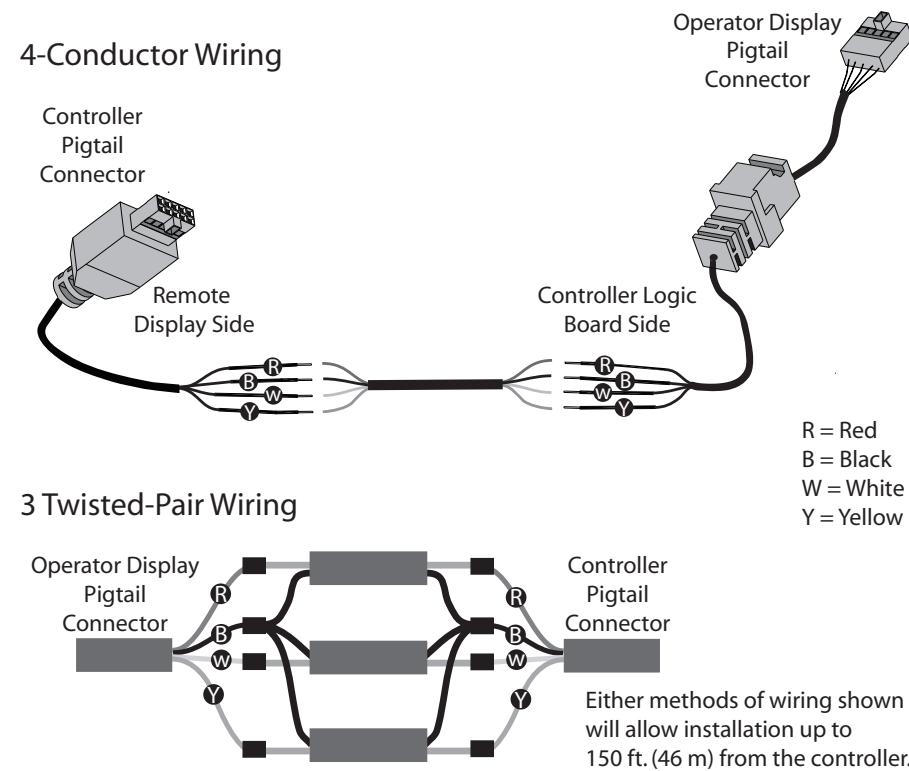
## 7 3. On the back panel, pull the stress-relief connector on the operator display cable away from the panel and remove the cable as shown below.



Operator display may be different in shape depending on the version.

4. Insert the operator display pigtail connector through the back panel and then press the stress-relief connector firmly into place.
5. Using the back panel as a template, mark the position of the four (4) mounting holes on the mounting surface. Set the back panel aside and drill holes for #8 (4 mm) screws or #8 wall anchors.
6. Secure the back panel to the wall with #8 (4 mm) mounting screws (not supplied).
- Note:** The operator display cable is keyed to the display connector. Before performing step #7, ensure the key and slot are lined up before pressing them together.
7. Connect the operator display cable, 10-pin connector to the circuit board in the display module and then snap the display module in place.
8. Run the customer-supplied operator display cable between the stand-alone operator display and the controller, and then secure it to the wall with wiring staples or wire mold.

9. Wire the pigtail connectors using either of the two methods shown below.



10. Feed the operator display cable into the controller enclosure and attach it to the display connector on the controller circuit board. The stand-alone operator display turns on.

## Calibrating and Adjusting the Operator Display

### Calibrating

**Note:** To set up the operator display screens and security, see the *Tracer® MP580/581 Programmable Controller Programming Guide (CNT-SVP01)* or the *Tracer Summit™ System Programming Guide (BMTX-SVP01)*.

1. On the Home screen, press the **Setup** button.
2. Press the **Page Down** button to view the next screen.
3. Press the **Calibrate Touch Screen** button.
4. Touch the **Target** using a small, pliable, blunt object, such as a pencil eraser. Hold until the beeping stops. A second calibration screen appears.

**Important:** Do not use sharp objects on the operator screen.

5. Again, touch the target with the object. Hold until the beeping stops. The touch screen is now calibrated.
6. Press the **Home** button.

To clean the operator display, use a soft cloth and glass cleaner. Spraying water or other type cleaners directly onto the screen could cause damage.

### Adjusting Brightness/Contrast

1. On the Home screen, press the **Setup** button.
2. Press the **Page Down** button to view the next screen.
3. Press the **Adjust Brightness and Contrast** button.
4. To increase the brightness, press the buttons along the top row (in sequence) from left to right. To decrease the brightness, press the buttons from right to left.

**Note:** Contrast adjustment is not available on all computer display models.

5. To increase the contrast, press the buttons along the bottom row (in sequence) from left to right. To decrease the contrast, press the buttons from right to left.
6. Press the **Home** button.

## Agency Listings and Compliance

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

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