



Installation, Operation, and Maintenance

Tracer[®]TD7 Display

for the Tracer UC600 Programmable Controller



⚠ 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.



Introduction

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 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.**

⚠ 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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Agency Listings and Compliance

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Table of Contents

Introduction	6
Hardware	6
AC Power	6
Communication	6
Screen Characteristics	6
Touchscreen Guidelines	6
Dimensions	7
Specifications and Agency Compliance	8
Controller and Service Tool Requirements	8
Supported Languages	8
Screen Overview	9
Top Display Area	9
Main Display Area	9
Bottom Display Area	10
Installing the Tracer TD7 Display	11
Packaged Contents	11
Additional Mounting Parts	11
Installing the TD7 Display in a Trane Large Enclosure	11
Installing the TD7 Display onto a VESA Mounting Bracket	13
Setting Up and Using the TD7 Display Portable Carry Case	14
Setting Up the TD7 Portable Carry Case	14
Using the TD7 Portable Display	15
Powering up the TD7 Display for the First Time	15
Alarms	16
Active Alarms	16
All Alarms	16
Viewing Active and All Alarms	17
Alarm Icons	18
Sorting Alarms	18
Overrides	19
The Point Override Screen	19
Binary Overrides	20
Multistate Overrides	20
Analog Overrides	21
Setting Up a Temporary Override	22
Reports	23
Custom Graphics	23
Accessing a Graphic	24
Graphics Best Practices	24

Custom Reports	25
Creating a Custom Report	25
Editing a Custom Report	26
Override Summary	27
All Points Report	28
About	29
Expansion Modules	30
TGP2 Programs	31
Data Graphs	32
Creating a Data Graph	32
Settings	37
Control Settings	37
Schedules	37
Display Settings Screen	37
Display Preferences	38
Date and Time	40
Clean Touchscreen	41
Security Settings	41
Log In	41
Log Out	42
Creating a Schedule	43
About the Schedule Default Value	46
Setting Schedule Defaults	46
Adding Exceptions to a Schedule	48
Deleting a Schedule	53
Troubleshooting	54
Identifying and Diagnosing Issues	54
TD7 Automatic Rediscover and Automatic Hardware Reboot	54
Upgrading Firmware	56



Introduction

The purpose of this guide is to assist you in installing, programming, and operating the Tracer TD7 display, which operates with the Tracer UC600. This guide describes how to access the screens and the types of information that appear on the screens.

The Tracer® TD7 display allows you to view data and make operational changes on the following types of applications:

- Air-handling units (AHUs)
- Rooftop units
- Chillers
- Central heating and cooling plants
- Cooling towers
- Generic input/output (I/O) control

Hardware

The Tracer TD7 is a durable field-mounted touch screen display that is designed to operate in both indoor or outdoor environments. The TD7 display utilizes a standard 75mm VESA mounting pattern for installation in a Trane Large enclosure. Alternatively, it can be installed with a user-supplied VESA mount. See ["Installing the Tracer TD7 Display," p. 11](#), for more information.

AC Power

The Tracer TD7 display is powered by 24 VAC and requires 21 VA power, which it receives through a power cable. The display is typically connected to one of the two available 24 VAC outputs on the Tracer UC600 but can be powered from an alternate power source.

Communication

A separate Ethernet cable provides communication between the Tracer TD7 display and the Tracer U600 controller.

Screen Characteristics

The 7-inch WVGA 800 x 480 resolution touch-sensitive color screen is backlit, which enables viewing in poor light conditions including outdoor usage (with the exception of direct sunlight).

Touchscreen Guidelines

The touch screen registers the downward pressure of a touch. Light, quick, yet deliberate touches are most effective. Touching with more pressure has no effect.

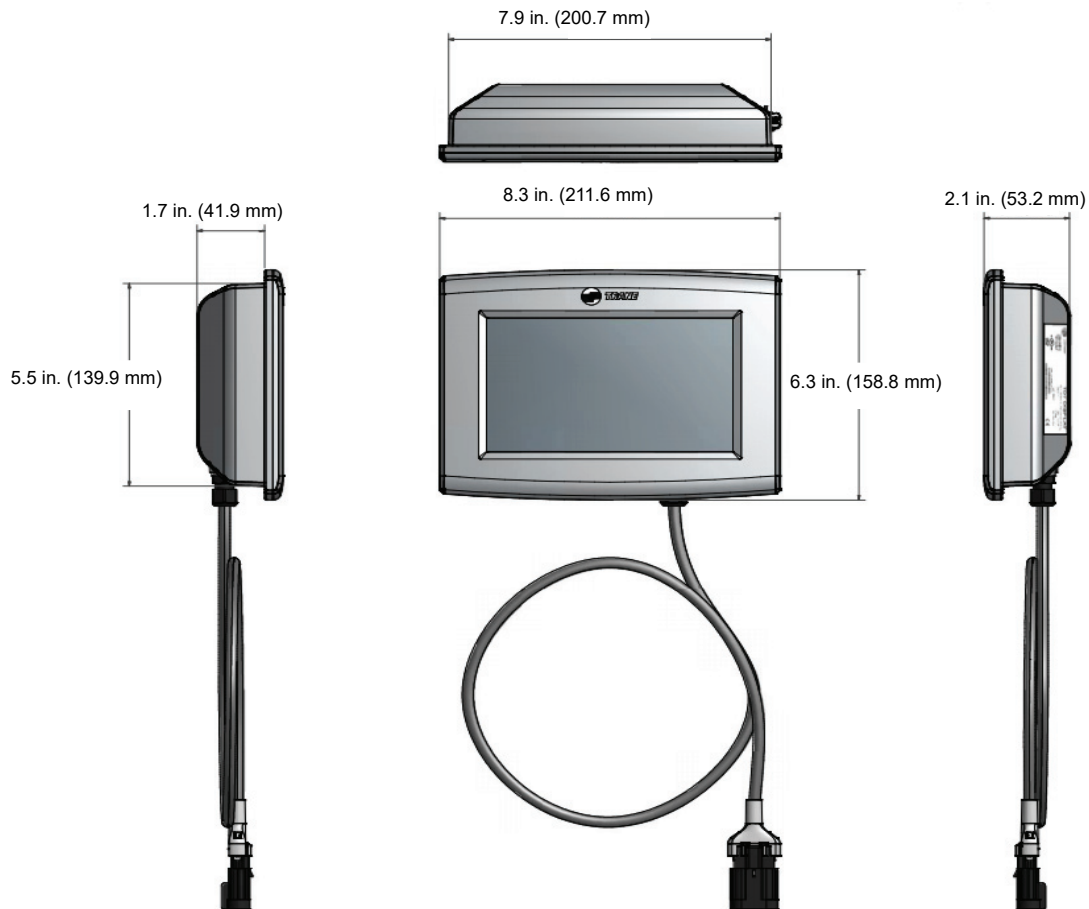
Recommended tools to use:

- finger
- thumb
- pencil eraser

Do not use:

- a screwdriver
- a pen
- a pencil point
- any other sharp or pointed object that might scratch the screen surface

Dimensions



Note: The power cable is permanently attached to the TD7 display. The power connector provides strain relief and protection from the elements.



Introduction

Specifications and Agency Compliance

Specification	
Input power:	24 Vac +/- 15%, 21 VA, 50 or 60 Hz
Storage temperature:	-67°F to 203°F (-55°C to 95°C) Humidity: Between 5% and 100% (non-condensing)
Operating temperature:	Temperature: -40°F to 158°F (-40°C to 70°C) Humidity: Between 5% and 100% (non-condensing)
Mounting weight:	Mounting surface must support 1.625 lb (0.737 kg) Mounting Type: VESA (75 mm x 75 mm)
Environmental rating (enclosure):	IP56 (dust and strong water protected) with use of an optional Sealed Ethernet Cable (PN: X19070632020)
Agency Compliance	
<ul style="list-style-type: none"> • UL916 PAZX, Open Energy Management Equipment • UL94-5V, Flammability • FCC CFR Title 47, Part 15.109: Class A Limit, (30 MHz—4 GHz) • CE EMC Directive 2004/108/EC • CE EMC Directive 2004/108/EC 	

Controller and Service Tool Requirements

- Tracer UC600 Version 2.0 or higher
 - Firmware 2.0.033
- Tracer TU Service Tool Version 8.0 or higher
(required to enable/manage security or name the custom reports)

For access to scheduling and custom graphics:

- Tracer UC600 Version 3.0 or higher
 - Firmware 3.0.036
- Tracer TU Service Tool Version 8.1 or higher

Supported Languages

The TD7 display supports 25 built-in languages. For help on how to select a specific language for the display, see [“Language,” p. 40](#).

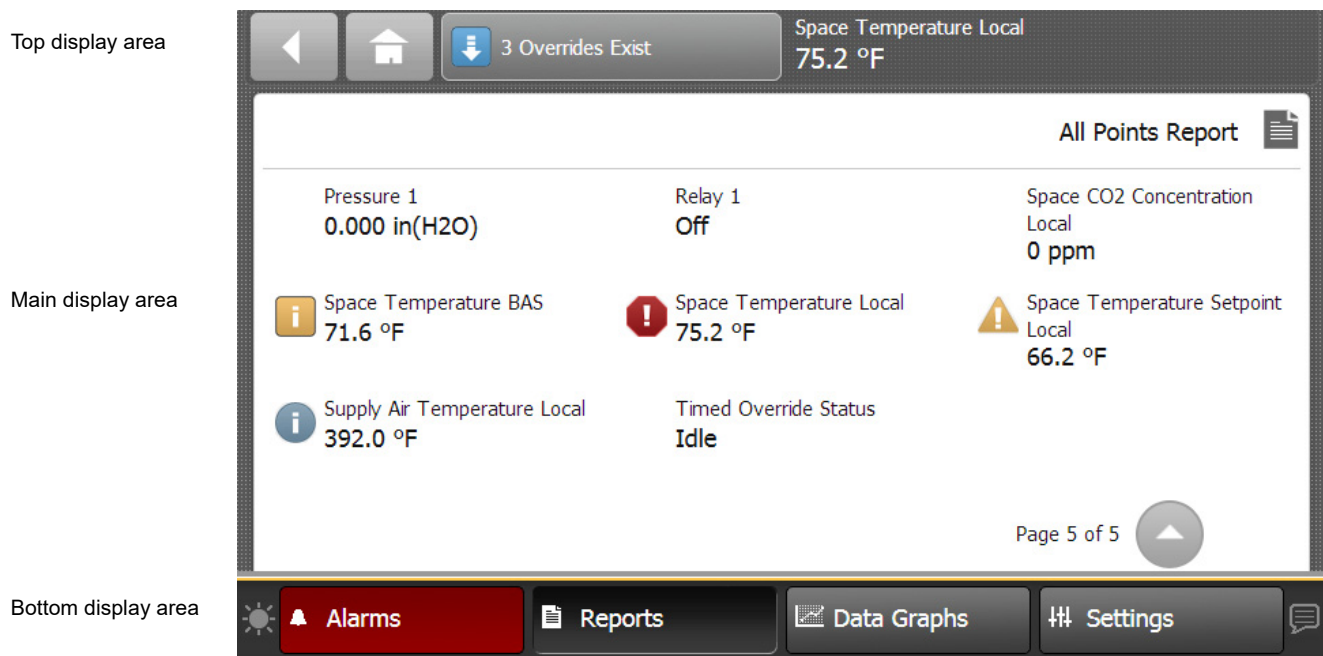
Arabic	Hungarian	Romanian
Chinese (Simplified)	Indonesian	Russian
Chinese (Traditional)	Italian	Spanish (Mexico)
Czech	Japanese	Spanish (Spain)
Dutch	Korean	Swedish
English	Norwegian	Thai
French	Polish	
German	Portuguese (Brazil)	
Hebrew	Portuguese (Portugal)	

Screen Overview

There are three distinct areas on the TD7 screens:

- Top display area
- Main display area
- Bottom display area

Figure 1. Tracer TD7 display screen



Top Display Area




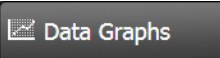


	The Back button, when touched, returns to the previous screen visited.
	The Home button, when touched, navigates to the All Points Report by default. Home Can be configured to display any of the three custom reports, All Points Report, All Points in Override Report, Alarms, or custom graphic. See "Display Preferences," p. 38.
	The Overrides Summary button provides an at-a-glance view of how many user overrides exist and provides a link to the Override Summary report. Only overrides at priority level 8 Manual Operator can be created or released from the TD7 display.
	The Header Data Point is a user-defined data point that will appear at the top portion of each TD7 screen. This value can be the present value of any point in the UC600. See "Header Data Point," p. 39.

Main Display Area

This area serves as the main task area in which you can view custom graphics, create reports, view and take action on alarms, and view or change display settings.

Bottom Display Area

The bottom display area contains functional buttons that provide a link to the appropriate screen.

	<p>Screen brightness settings: Touch this icon to open the brightness screen.</p>
	<p>Touch this button to open the Alarms screen. When an alarm is present, this button will flash red.</p>
	<p>Touch this button to navigate to the Reports screen.</p>
	<p>Touch this button to open the Data Graphs screen to view and/or edit data logs in graphical format.</p>
	<p>Touch this button to open the Settings screen, which contains options for controls, security (if enabled), and display settings.</p>
	<p>Language selection: Touch this icon to select a language that will be displayed on all screens.</p>



Installing the Tracer TD7 Display

This section describes installation procedures when installing the Tracer TD7 display inside a Trane large enclosure, using a VESA mounting bracket, using the TD7 Display Portable Carry Case (available as a separate purchase). Read and observe all warning and caution statements before you begin the installation procedure.

The TD7 display can also be mounted remotely up to 328 ft. (100 m.) from the UC600 by using a field-supplied VESA mounting bracket (see “[Installing the TD7 Display onto a VESA Mounting Bracket](#),” p. 13).

⚠ WARNING

Hazardous Voltage!

Disconnect all electric power, including remote disconnects before servicing. Follow proper lockout/tagout procedures to ensure the power can not be inadvertently energized. Failure to disconnect power before servicing could result in death or serious injury.

Packaged Contents

- One (1) Tracer TD7 display with permanently attached 3.3 ft (1.0 m.) power cable with pin connector (PN: X13760335-01)
- Four (4) M-4 screws
- Four (4) spacer washers
- Two (2) 2-pin terminal blocks (one spare)
- One (1) 7 ft. (2.24 m.) category 5E Ethernet cable for indoor use
- One (1) 3.3 ft. (1 m.) power cable with plug connector (PN: X19051625020)

Additional Mounting Parts

- TD7 Display Low Profile Mounting Bracket (VESA 75mm) (PN: X05010511010)
- TD7 Display Portable Carry Case (PN: X18210613010)
- Sealed Ethernet cable (PN: X19070632020)

Installing the TD7 Display in a Trane Large Enclosure

Important: *The enclosure door must be installed on the large enclosure prior to installing the TD7 display.*

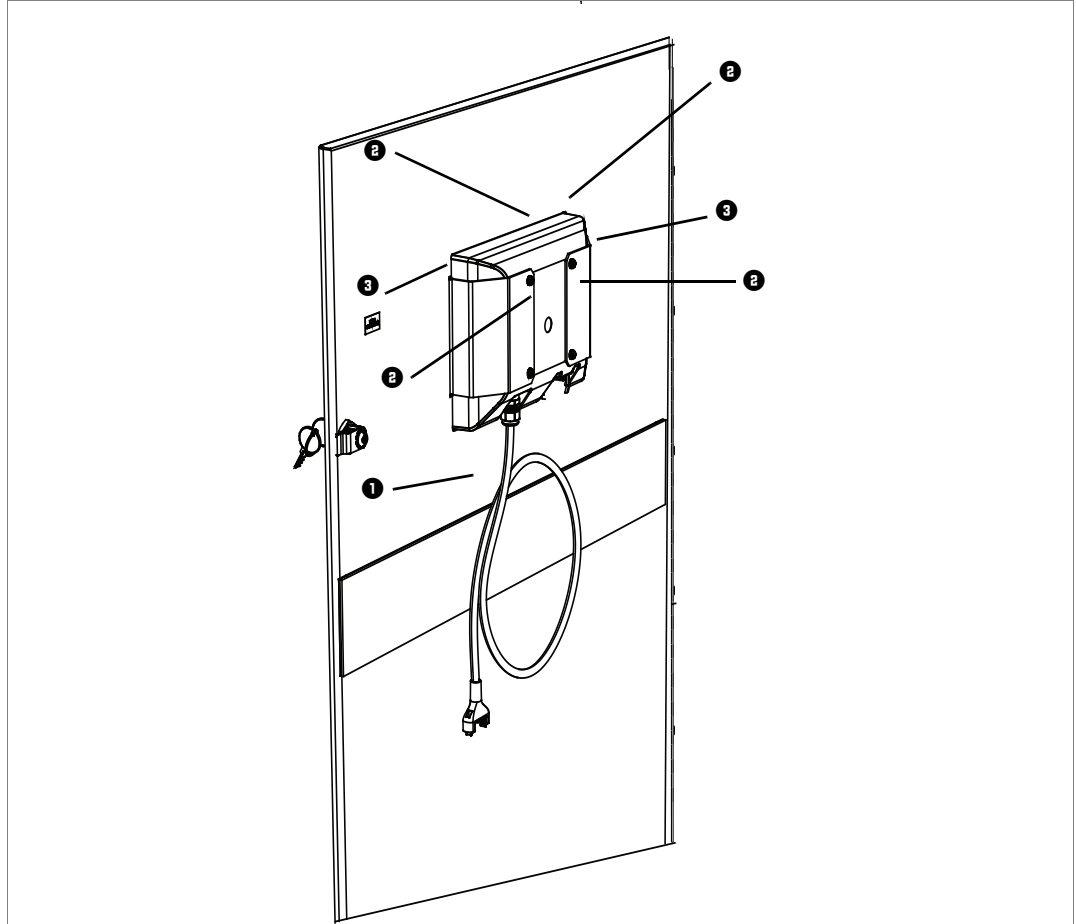
Order numbers for the Trane Large enclosure (display-capable door) are:

- X13651553010 (120 VAC)
- X13651555010 (230 VAC)

1. Disconnect power at the circuit breaker and perform lockout/tagout procedures.
2. Open the enclosure door and disconnect the 24 VAC power from the UC600.
3. Holding the display, insert the power cable ❶ (attached to the TD7) through the display opening on the front of the enclosure door.
4. Slightly tilt the TD7 display while inserting it into the door. When fully and properly positioned, the TD7 display will lay flush against the enclosure door.
5. While holding the TD7 display, insert and hand-tighten the four M-4 screws ❷ onto the brackets ❸.
6. Securely tighten the M-4 screws using a Phillips screwdriver.

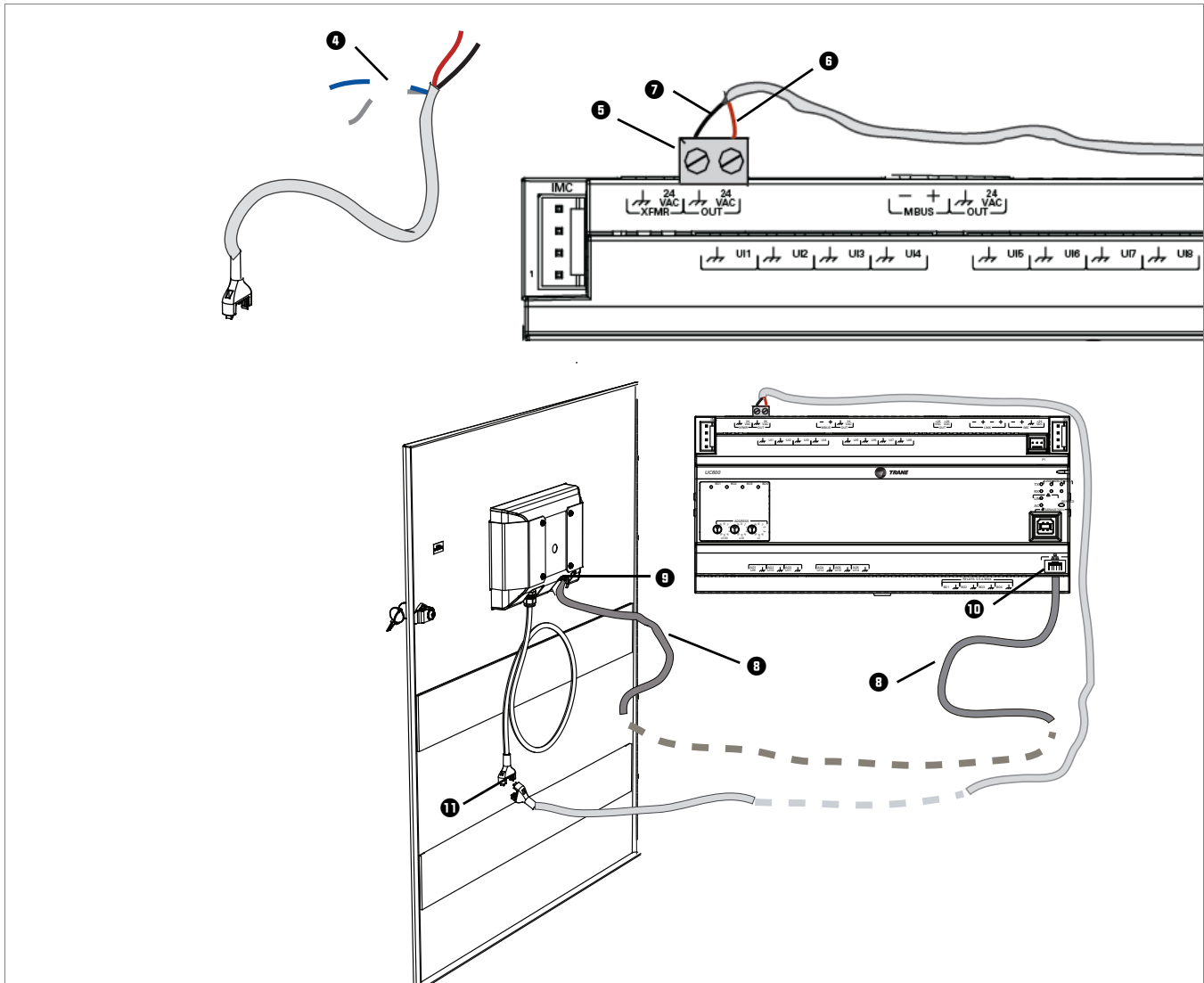
Installing the Tracer TD7 Display

Figure 2. Installing the TD7 display in a large enclosure



7. Snip off the blue and gray wires from the power cable with plug connector (PN: X19051625020) ④ so only the red and black wires remain.
8. Place one of the supplied terminal blocks ⑤ onto an available 24 VAC terminal connection on the UC600.
9. Insert the red wire ⑥ through the 24 VAC connection, and the black wire ⑦ through the ground connection on the terminal block that was installed on the UC600. Tighten the terminal block screws with a 1/8 in. (3 mm) slotted screw driver.
10. Connect the Ethernet cable ⑧ to the Ethernet port ⑨ on the TD7 display.
11. Route the Ethernet cable to the display port ⑩ on the UC600.
12. Connect the ends ⑪ of the two power cables together.
13. Reconnect the 24 VAC power to the UC600, remove lockout/tagout, and apply power to the circuit.

Figure 3. Installing communication wiring



Installing the TD7 Display onto a VESA Mounting Bracket

The Tracer TD7 can be mounted near the UC600 with the supplied Ethernet cable and power cable, or remotely mounted up to 328 ft (100 m.) by using a field-supplied 75 mm VESA mount.

Remote mounting requires the following additional field-supplied components:

- A power source that will supply 24 VAC to the display
- Ethernet cable
- Power cables

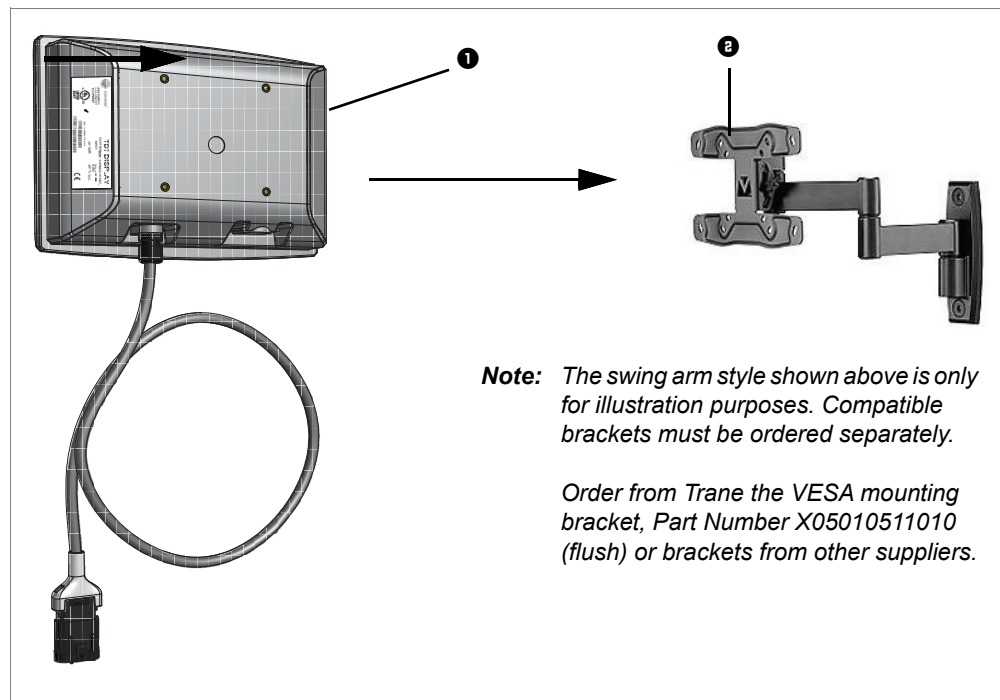
Many commercial 75mm VESA mounting brackets are available, which range from a simple wall mount to tilt-and-swivel mounts (shown in [Figure 4](#)) or the TD7 Display Low Profile Mounting Bracket (VESA 75mm, part number X05010511010).

Note: Mounting Bracket X05010511010 is not supplied and must be ordered separately from Trane.

Installing the Tracer TD7 Display

1. Disconnect power at the circuit breaker and perform lockout/tagout procedures.
2. Disconnect the 24 VAC power from the UC600.
3. Mount the VESA mounting bracket according to manufacturer's instructions.
4. Position the TD7 display **1** onto the VESA mounting bracket **2** and align the four mounting holes with the bracket while inserting and hand-tightening the four M-4 screws. (Some brands of VESA mounting brackets may require the use of the four spacer washers to allow the M-4 screws to tighten properly.)
5. Securely tighten the M-4 screws using a Phillips screwdriver.
6. Follow steps 7 through 13 of ["Installing the TD7 Display in a Trane Large Enclosure"](#) to complete this process.

Figure 4. Example VESA mounting



Setting Up and Using the TD7 Display Portable Carry Case

The TD7 Display Portable Carry Case (PN: X18210613010) is recommended when a TD7 display will be used on more than one Tracer UC600. The case protects the TD7 display when not in use, stores the power and Ethernet cables, and is equipped with a handle to carry the display.

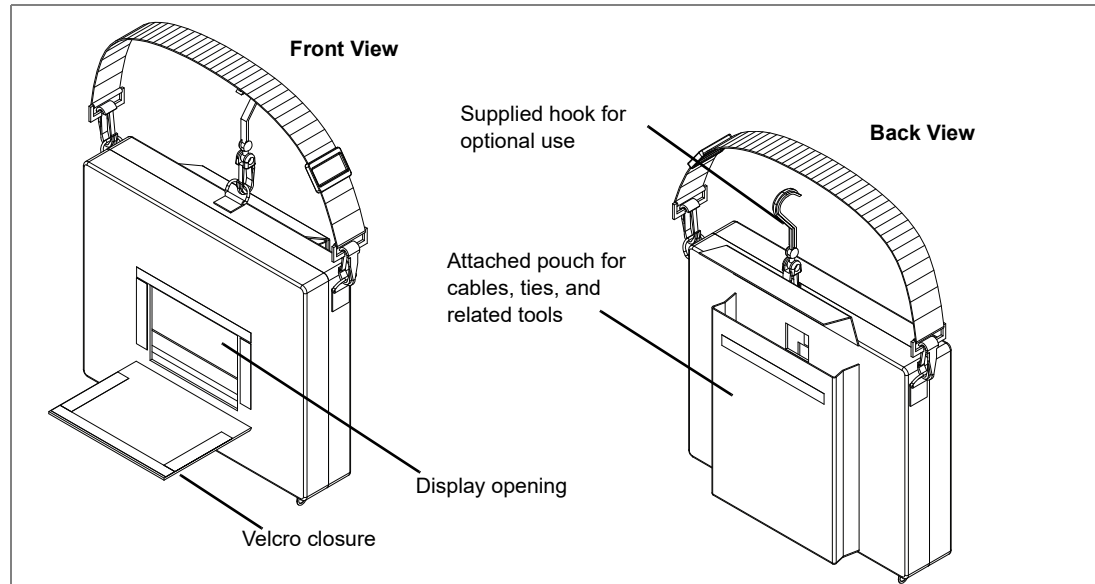
Setting Up the TD7 Portable Carry Case

1. Connect the supplied Ethernet cable to the TD7 display.
2. Position the TD7 operator display inside the carry case, with the operator display facing outward through the display opening ([Figure 5](#)). Route both the power cable and the Ethernet cable through the small opening in the back of the case that leads to the pouch.
3. Securely close the portable carry case using the attached zipper.
4. Snip off the blue and gray wires from the unattached power cable so only the red and black wires remain.
5. Using a supplied terminal block, Insert the red wire through the 24 VAC connection, and the black wire through the ground connection.

Note: Do not connect the wired terminal block to the UC600 at this stage in the procedure.

6. Connect the power cable (with the attached terminal block) to the TD7 display power cable.

Figure 5. TD7 Portable Carry Case



Using the TD7 Portable Display

1. Locate the Tracer UC600 to be used with the TD7 display.
2. Remove the Ethernet and power cables from the pouch of the TD7 portable carry case.
3. Connect the Ethernet cable to the display port on the Tracer UC600. As an example, see [Figure 3, p. 13](#).
4. Connect the power cable to an available 24 VAC connection on the Tracer UC600. The TD7 will start up in approximately 90 seconds.

Note: The TD7 Display draws 21 VA of power. Proper sizing of the transformer is required. See the Tracer UC600 Installation, Operation, and Maintenance manual, BAS-SVX45*-EN for more information on power budgeting.

Powering up the TD7 Display for the First Time

After completing the installation instructions in [“Installing the Tracer TD7 Display,” p. 11](#), The TD7 display can be powered up.

Before applying power to the TD7, verify the following:

- The UC600 is powered up.
- The Ethernet cable between the UC600 and the TD7 is securely attached.
 - The link light on the UC600 should be on steady (solid green with a flashing activity light, indicates good Ethernet communication).

Upon successful power up, the TD7 display will default to the configured home screen. The All Points Report is the factory default.

Important: Do not attempt to update the TD7 Display from a connection type other than a USB.

Alarms

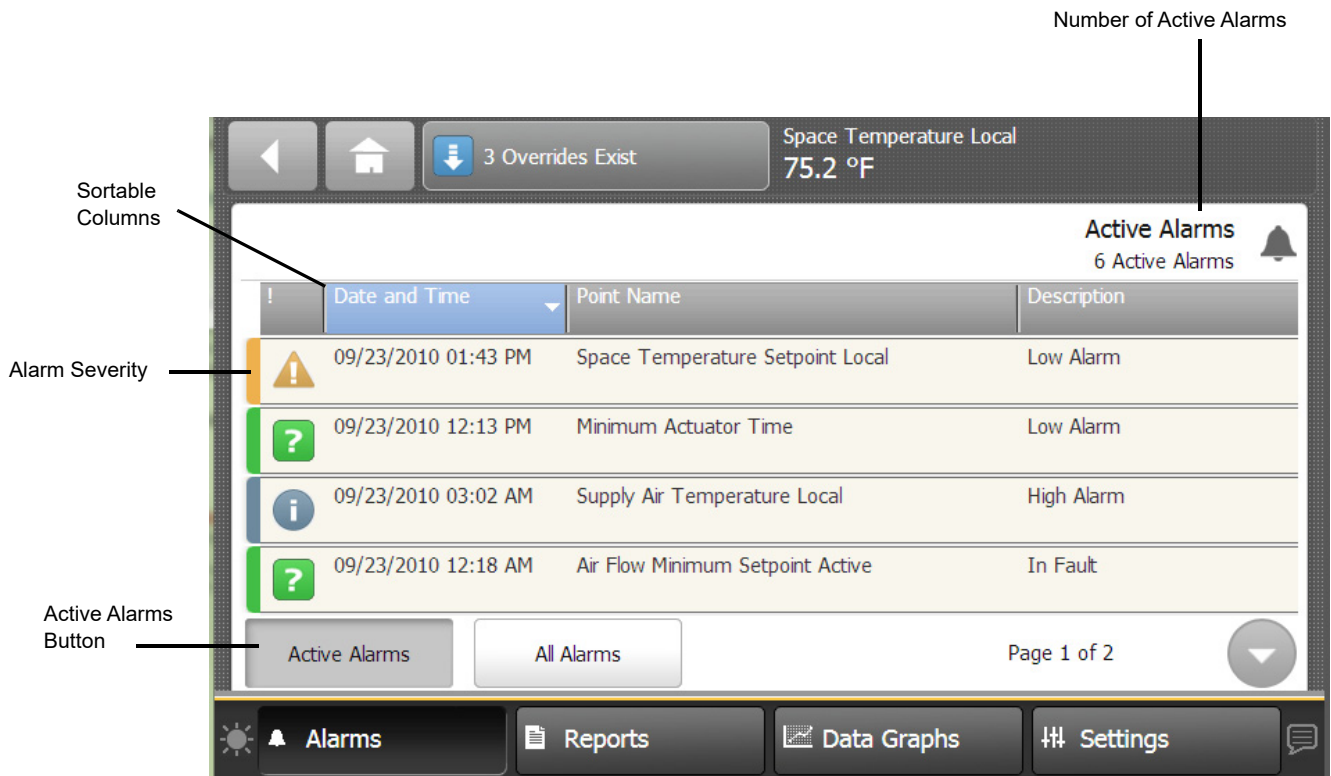
Alarms appear on the Tracer TD7 display immediately upon detection. Touch the Alarms button in the bottom display area to view the Alarms screen.

Active Alarms

Figure 6 shows the Active Alarms screen and commonly used functions. Configuration is not required in order for points in alarm to appear in the Active Alarms screen. When the alarm clears and the point returns to normal, the alarm will automatically be removed from the list. The number of active alarms is displayed in the top right portion of the screen. When an active alarm is present, the alarm button at the bottom of the screen will flash.

The Alarms screen defaults to Active Alarms. The **Active Alarms** button has a shaded appearance which indicates that you are viewing active alarms.

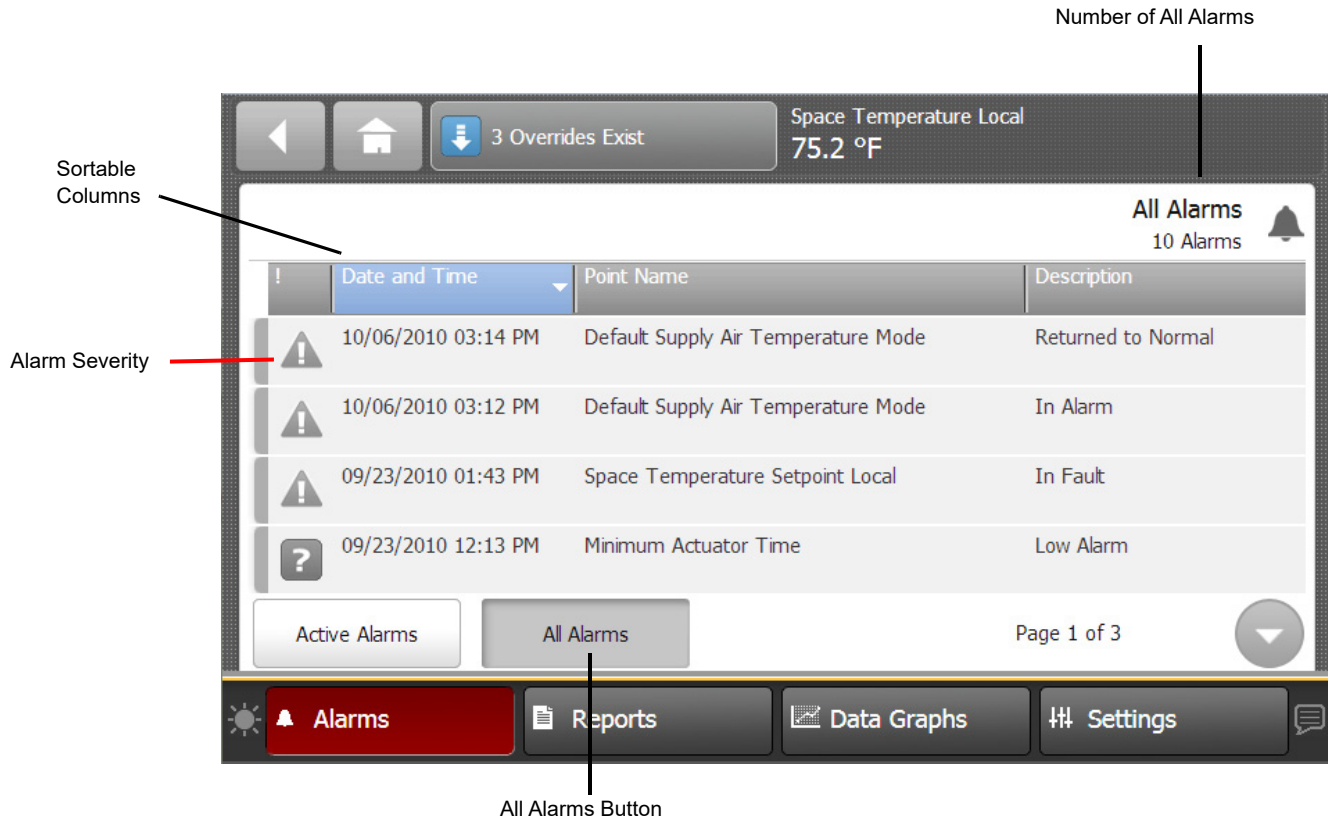
Figure 6. Active Alarms screen



All Alarms

On the Alarms screen, touch the **All Alarms** button to view all alarms, commonly referred to as the event log (see Figure 7, p. 17). For the alarms to appear on the TD7 display, the point must have an alarm notification class selected other than None when it was set up in Tracer TU. Additionally, the point must have entered the appropriate notification (In Alarm, When Failed, Return to Normal, or the notification class set to a value other than None). For more information, see "Schedules," p. 69.

Figure 7. All Alarms screen



Viewing Active and All Alarms

- **Active alarms:** These are alarms that require attention. All alarms that are currently active appear when you view this category. Active alarms are not reset by way of the display. Active alarms will clear automatically when the condition causing the alarm is removed.
- **All alarms:** All alarms, including active alarms, appear when you view this category. The alarms are listed in chronological order.

Note: *All Alarms is an event log that resides in the Tracer UC600 that the TD7 display is capable of retrieving. Points must be configured to have alarms routed to show up in the All Alarm list. The UC600 can support up to 200 alarms.*

Alarm Severity

A color-code icon representing the severity of each alarm is shown under the severity (!) column. For a description of the five alarm icons, see [Table 1, p. 18](#).






Sortable Alarms

You can sort active alarms by touching one of the column headers. Choose to sort by severity (!), date and time, point name, or description.

Alarm Icons

Alarms icons appear in the left-most column of the alarms screen. They are identifiable by their shape and color.

Table 1. Alarm icons

Active Alarm Icons	Notification Class
	Critical
	Service Required
	Warning
	Information
	None

Note: Notifications classes are configured in point alarm settings section in Tracer TU.

Sorting Alarms

To sort alarms by a category other than date and time, touch one of the other column headings in the table. The column heading responds by changing to blue, and the alarms table re-sorts according to the blue column heading. By touching the blue column heading again, the column will change the sort direction.

- Severity (!): Active alarms are at the top, followed by the most severe, followed by the most recent.
- Date and Time (the default sort): Most recent alarms are at the top.
- Point Name: Alphabetical sort based on the point name.
- Description: Alarms are sorted alphabetically by description.

Overrides

Overrides can be performed at priority level 8 using the Tracer TD7. Only overrides at priority level 8 Manual Operator can be created or released from the TD7 display. User overrides are defined as points that are controlled at: 1 Manual Life safety, 8 Manual Operator (display priority), 11 User medium, and 13 User low.

There are three different types of override screens, which vary according to the type of data in each override:

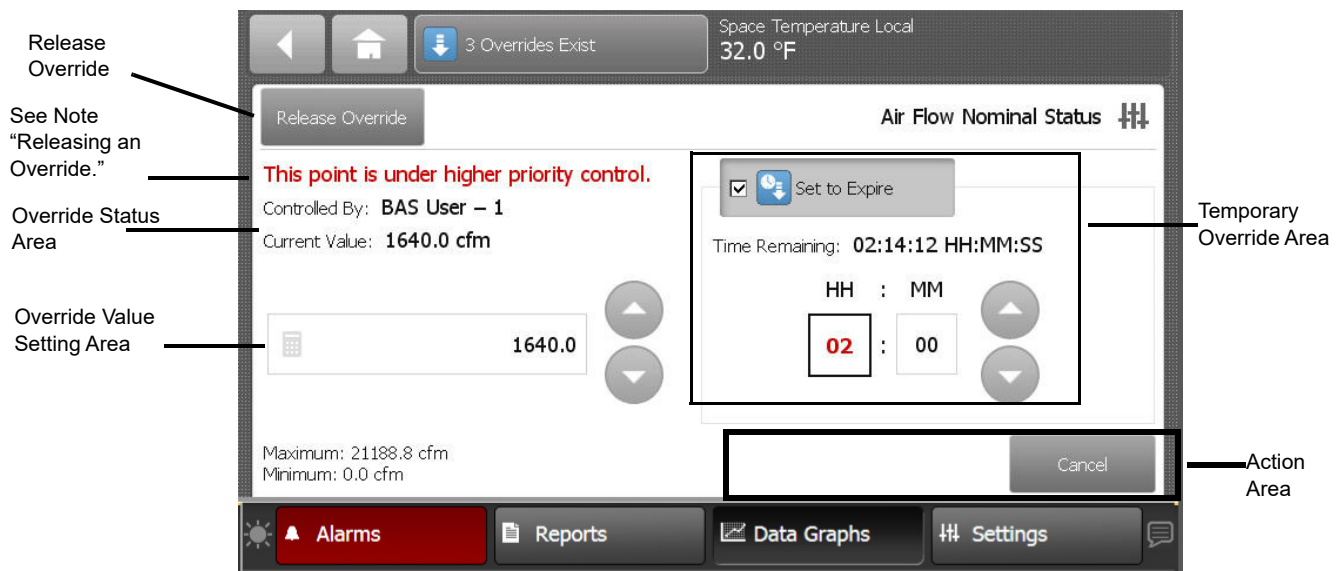
- Binary overrides or multistate overrides (four or fewer states).
- Multistate overrides (five or more states).
- Analog overrides.

The Point Override Screen

Navigate to the Point Override screen by touching the point name from any point report, such as the Override Summary Screen as described in [“Reports,” p. 23](#).

From the Point Override screen you can perform overrides, set them to expire in a user-defined interval, or release a point that is currently overridden. All Point Override screens, (analog, binary, or multistate), are comprised of the same basic components (see [Figure 8](#)).

Figure 8. Point Override screen components



Override Status Area

This area shows who is controlling the point, followed by the active priority level and the current value of the point. If security is enabled, the name of the user that performed the override will be shown in the Controlled By field. If security is disabled, "Front Panel" is displayed for all overrides performed by the TD7 display.

Override Value Setting Area

This area contains buttons that when pressed, change the override status. The button that is active has a shaded appearance in color. The exception is analog points, which require manually entering a value. See [“Analog Overrides,” p. 21](#).

Temporary Override Area

This area allows you to set up a temporary override. See [“Setting Up a Temporary Override,” p. 22.](#)

Action Area

This area allows you to apply, save, or cancel edits made to the point override.

Releasing an Override

Touch the Release Override button to release the current override. This action returns you to the Override Summary screen.

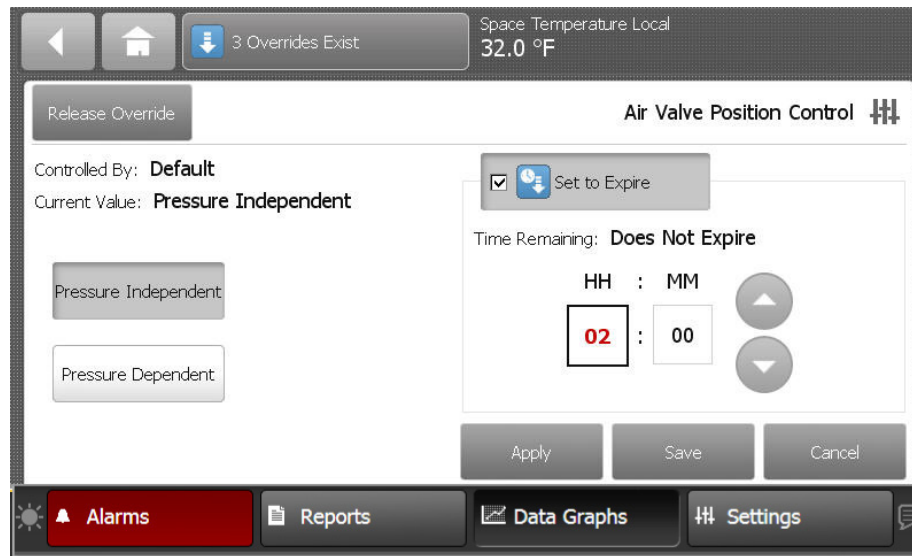
Note: *If a point is under a higher priority control (as shown in [Figure 8, p. 19](#)), you can still proceed with releasing the override. However, it will not take effect until the higher priority level is removed in Tracer TU, Tracer SC, or Tracer ES.*

Binary Overrides

The Binary Override screen provides buttons with point state text that is used to set the current value. Multistate overrides with four or fewer states have similar screen functions as the binary override screen.

Touch a button in the override setting area to select a state. Touch the **Apply** or **Save** button to retain your changes.

Figure 9. Binary Override screen

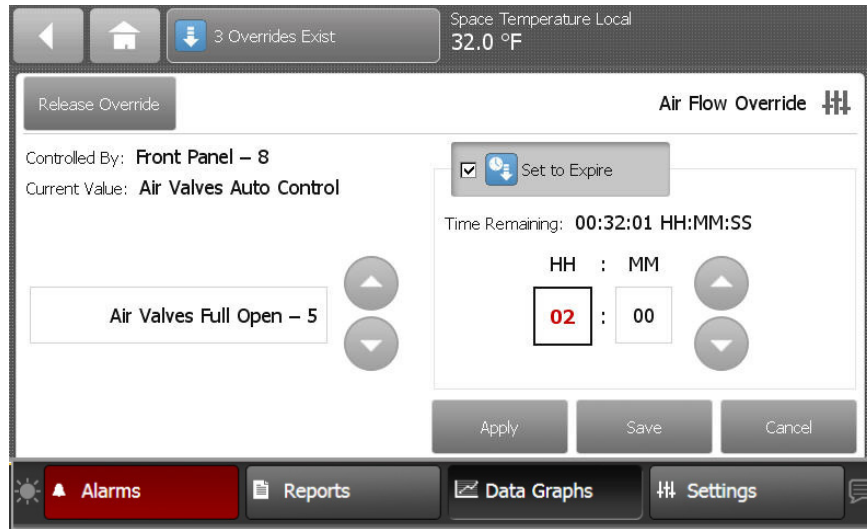


Multistate Overrides

Multistate override screens that contain five or more items will contain up and down arrow buttons in the Override setting area as shown in [Figure 10, p. 21.](#)

Use the up and down arrow buttons to select a state. Touch the **Apply** or **Save** button to retain your changes.

Figure 10. Multistate override screen (five or more states)



Analog Overrides

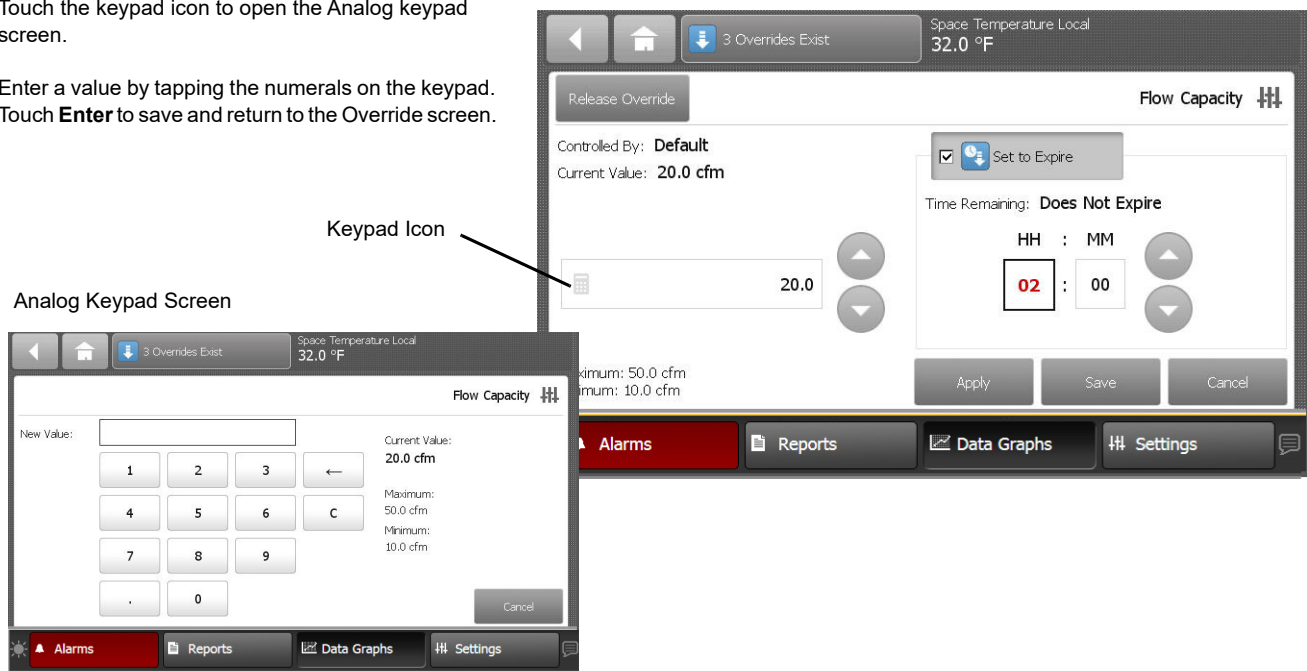
The Analog Override screen contains up and down arrows in the Override setting area, as well as a keypad icon that when touched, opens the Analog Keypad.

Use the up and down arrow buttons to select a value. Touch the **Apply** or **Save** button to retain your changes. To manually enter a value, touch the keypad icon.

Figure 11. Displaying the analog keypad screen

Touch the keypad icon to open the Analog keypad screen.

Enter a value by tapping the numerals on the keypad. Touch **Enter** to save and return to the Override screen.



Setting Up a Temporary Override

You can set up a temporary override by using the buttons in the Temporary Override area. The default for temporary overrides is 2 hours 0 minutes. The maximum duration for a temporary override is 99 hours 59 minutes. If more time is needed, consider setting up a permanent override.

1. Touch the **Set to Expire** button.
A check mark appears in the check box, the override icon becomes blue, and the Time Remaining area appears.
2. Touch either the hours (**HH**) or minutes (**MM**) button, then use the up and down arrows to set the override.
 - The HH and MM buttons, when pressed change by one increment. Press down on the buttons to accelerate. A second touch of the (HH) or (MM) buttons will open the Analog keypad screen. Touch the **Apply** or **Save** button to set the temporary override.

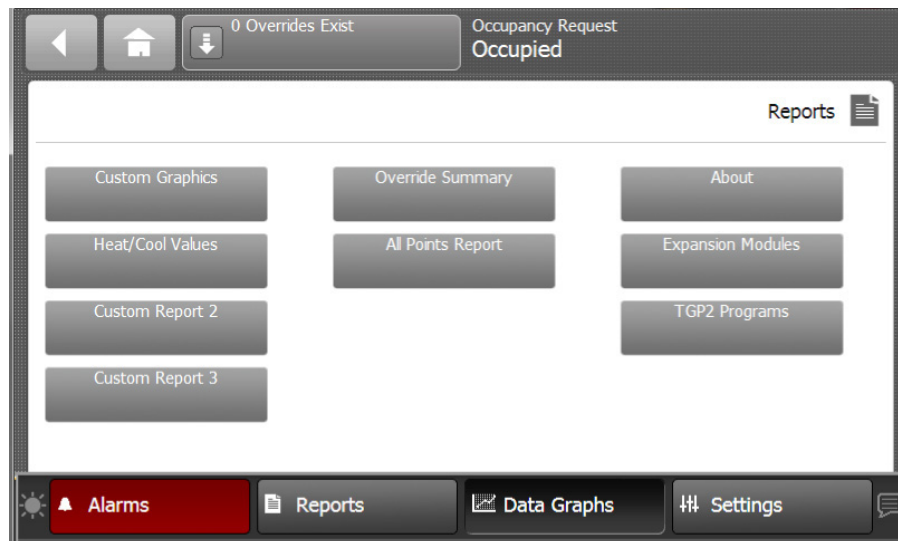
Reports

You can use the Tracer TD7 Display to view a variety of reports and create and edit custom reports.

Touch the **Reports** button in the bottom display area to view the Reports screen. The Reports screen contains the following buttons:

- Custom Graphics
- Custom Report 1
- Custom Report 2
- Custom Report 3
- Override Summary
- All Points Report
- About
- Expansion Modules
- TGP2 Programs

Figure 12. Reports screen



Custom Graphics

The Tracer TD7 Display supports a maximum of 10 custom graphics. Custom graphics are created and loaded using Tracer Graphics Editor (TGE). See the TGE online help for more information. Standard graphics are available in the most recent Pre-Packaged Solutions (PPS) library.

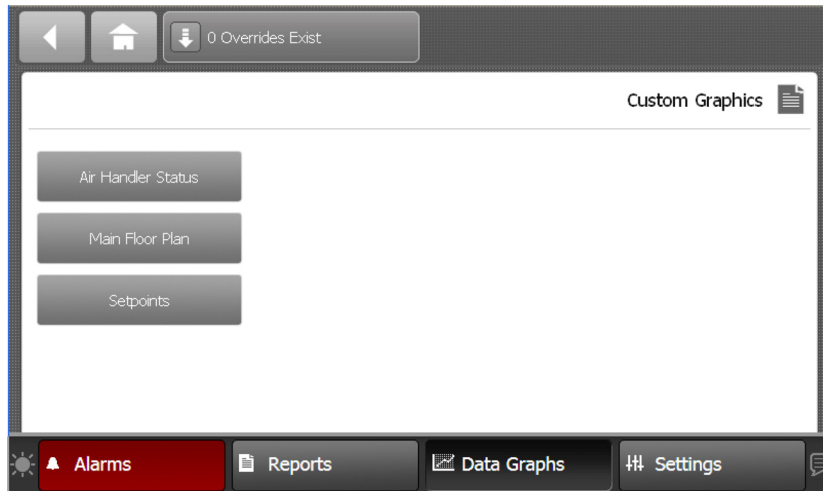
Graphics in TD7 allow you to:

- Display the value of any point on the controller
- Display animations items such as fans and dampers
- Perform overrides
- Assign a graphic as your home page
- Link to the Alarms page
- Link to a schedule
- Link to the All Points Report and Custom Reports
- Link to another graphic

Accessing a Graphic

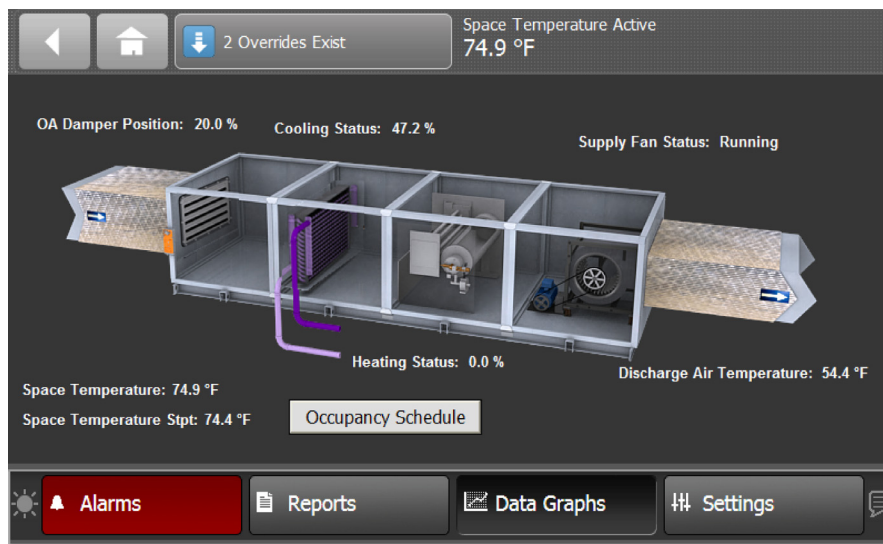
1. Navigate to the Reports screen, then touch **Custom Graphics**. The Custom Graphics screen appears (Figure 13). Each button on the screen represents a custom graphic. Custom graphics are published to the UC600 using Tracer Graphics Editor (TGE) in Tracer TU (Version 8.1 or higher).

Figure 13. Custom graphic screen (example)



2. Touch the preferred graphic. The selected graphic appears (Figure 14).

Figure 14. Example graphic in TD7



Note: Graphics support on the TD7 Display requires Tracer UC600 Version 3.0 or higher.

Graphics Best Practices

The UC600 limits files to 2 megabytes (MBs). Therefore, each graphic file cannot exceed 2 MBs. Graphic files smaller than 2 MBs will result in faster controller performance and graphic loading time.

Observe the following best practices:

- Use a program such as Microsoft Paint to save graphics using the following recommended formats: png, jpg, or gif. File formats such as bitmap (bmp) result in much larger files sizes.
- Open the image using Microsoft Paint (or similar program), and resize the image to smaller dimensions.
- If the image file was created by Centralized Graphics or another graphics specialist, request a new image with a file size under 2 MB.

Note: Verify that the image quality is acceptable after saving in one of the recommended formats. JPG and GIF file formats use image compression which can reduce the quality of the image.

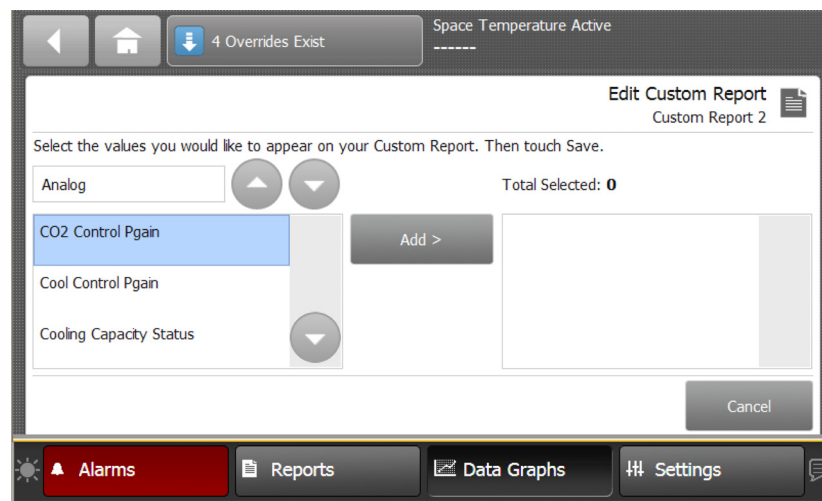
Custom Reports

You can create up to three custom reports using the Tracer TD7 Display or the Tracer TU service tool. Reports may contain all nine point types. A maximum of 36 pieces of data is allowed per custom report. Available reports are labeled Custom Report 1, 2, or 3.

Creating a Custom Report

1. Navigate to the Reports screen, then touch one of the three custom report buttons.
The Custom Report (1, 2, or 3) screen appears.
2. Touch the **Edit** button.
The Edit Custom Report screen appears (Figure 15).

Figure 15. Creating a custom report

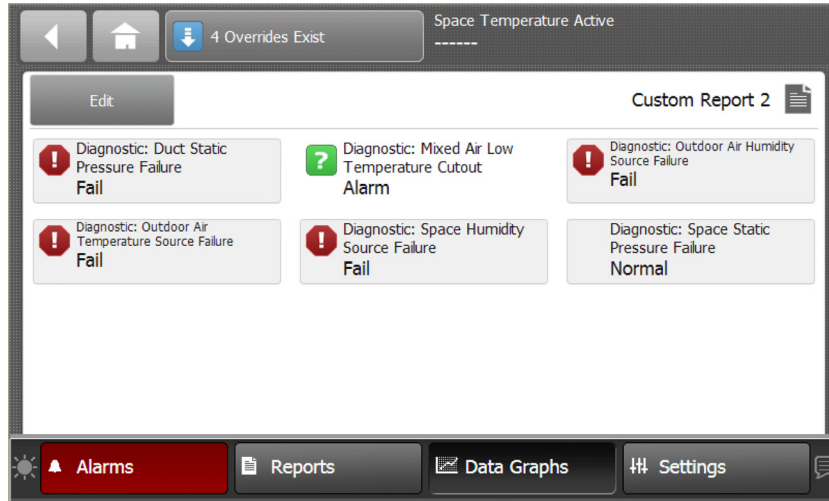


3. Use the up and down arrow buttons to select a point type. Add items by touching the item that is highlighted blue, then touch the **Add** button.
4. Continue adding values to your report. When you are finished, touch the **Save** button.
The Custom Report screen, populated with your selected values, appears (Figure 16).

To view the items in the selected list, touch a value in this list and use the up and down arrows to the right of the list. To change the location of an item in the list, select the item and then use the up and down arrows above the table to move the items.

Note: Changes to the report name must be done in Tracer TU.

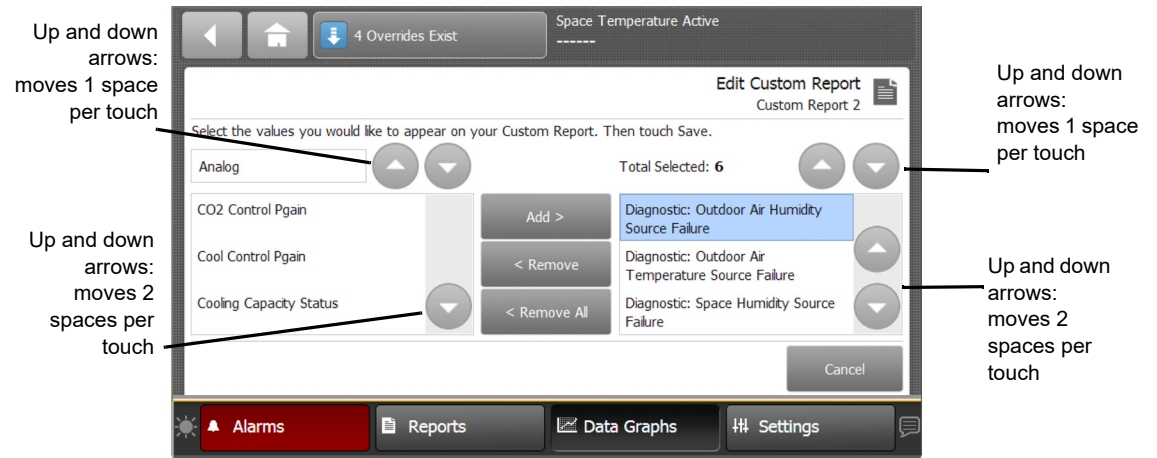
Figure 16. New custom report screen



Editing a Custom Report

1. Touch **Reports** to view the Reports screen.
2. Touch the report that you want to edit.
Follow steps 2 through 4 in [“Creating a Custom Report,” p. 25.](#) to complete your edits.

Figure 17. Editing a custom report



Changing the Order of Items in a Custom Report

Items in a custom report can be rearranged according to personal preference by using the editing tools as described in [Editing a Custom Report](#).

For example, you created the custom report shown in [Figure 16, p. 26](#), but would prefer to move item “Diagnostic: Space Static Pressure Failure” to the top left portion of the report.

To change the order for the example described above:

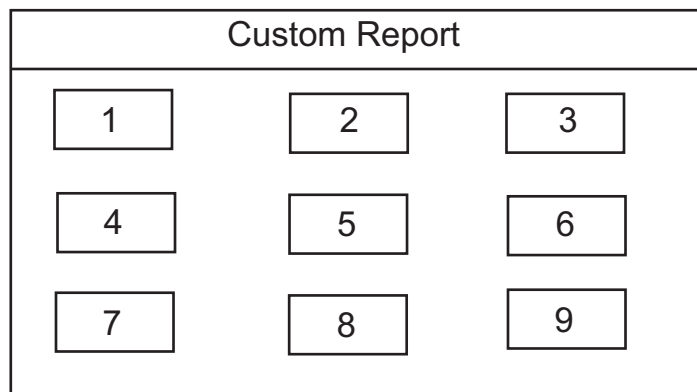
1. Touch the **Edit** button on the Custom Report screen.

2. Use the arrow buttons to locate the item to be reordered. When located, touch the item which will then be highlighted blue (see [Figure 17](#)).
3. Use the arrow buttons to move the highlighted item to the top of the list (number 1 position).
4. Touch **Save**. You will be returned to the Custom Report screen, where the reordering changes now appear.

Note: On the TD7 display, report items are ordered from left to right with the first item appearing at the top left portion of the screen. Up to nine items can appear on each Custom Report screen with a maximum of 4 screens and 36 items per report.

The model in [Figure 18](#) depicts a custom report screen with the first nine items displayed on the screen. Use this model to accurately reorder items in your custom reports.

Figure 18. Custom Report (order of items)





Override Summary

The TD7 has a built in override summary report that can be accessed in one of two ways:

- The preferred method is to access the report by touching the Override Summary button located in the top display area of each TD7 screen. See [“Top Display Area,” p. 9](#).
- An alternate method is to touch the Override Summary button on the Reports screen.

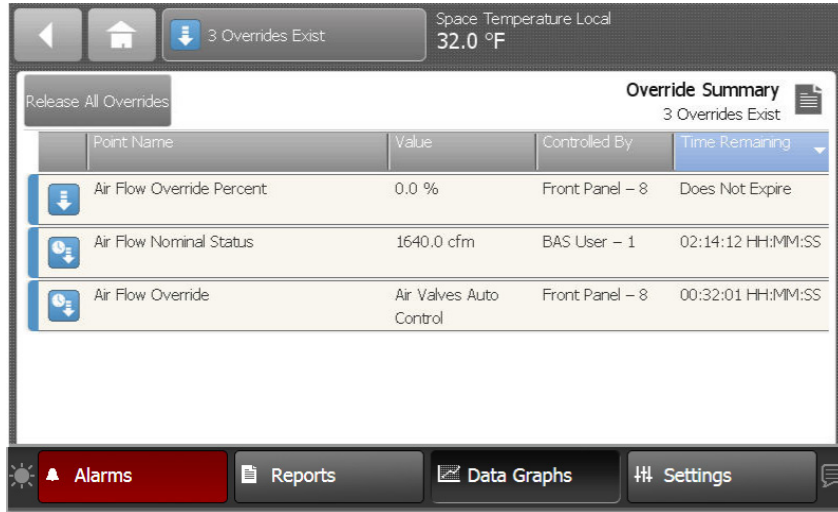
The Override Summary screen contains all active overrides. Columns are sortable and automatically default to Time Remaining.

The override icon () indicates that a point override is in effect indefinitely. The temporary override icon () indicates that an override will expire after a specified duration.

To release all overrides in the list, touch the **Release All Overrides** button (only points that are controlled at priority level 8 will be released). To release a single override, see [“Override Status Area,” p. 19](#).

Touch anywhere in a point row to navigate to the corresponding Point Override screen.

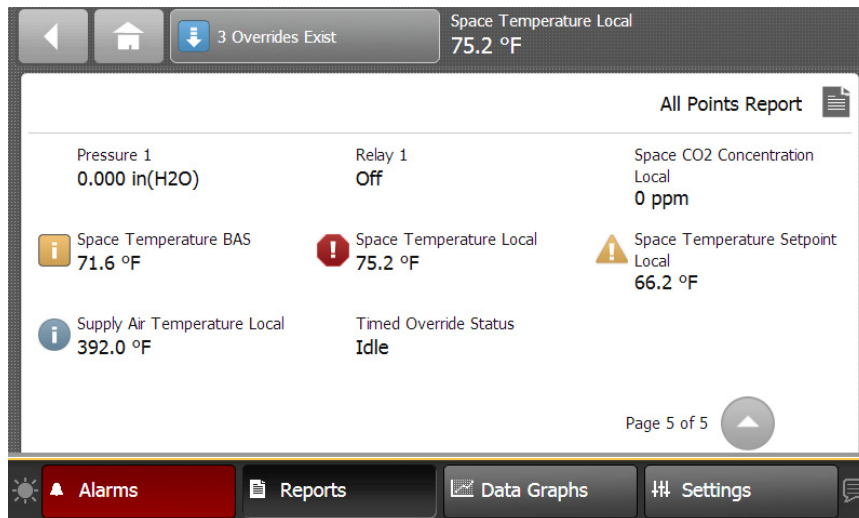
Figure 19. Override summary screen



All Points Report

Touch the **All Points Report** button to view the All Points Report screen, which contains all configured points for the unit controller. Use the up and down arrows located at the right most bottom of the screen to page up or down.

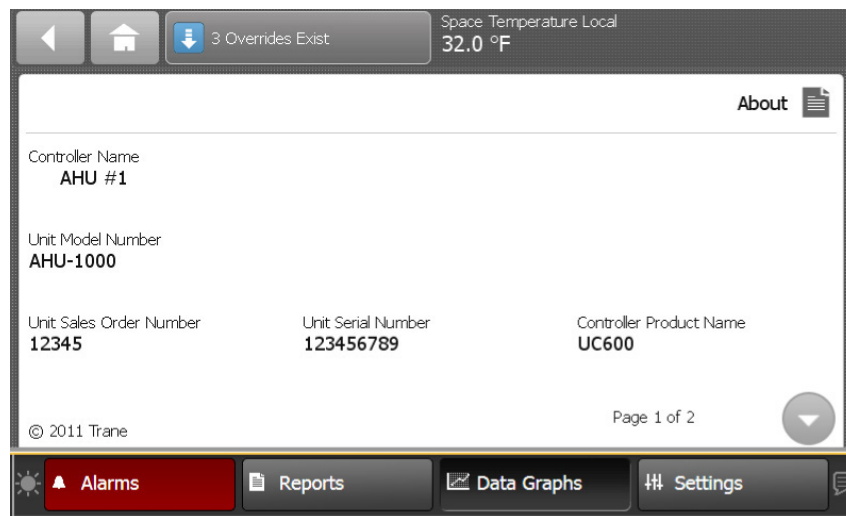
Figure 20. All points report screen



About

Touch the **About** button to view the About screen. View information about the unit controller and the TD7 display to which it is connected. Touch the arrow button to scroll to the next screen.

Figure 21. About screen



Controller Name

This is the name that was assigned to the UC600 in Tracer TU.

Unit Model Number

This is the model number of the AHU/equipment on which the UC600 is installed. This value is typically entered in the factory, but can be entered in the UC600 controller. If the equipment was field-installed, this field will be blank.

Unit Sales Order Number

This is the order number for the equipment that the UC600 is controlling. This number is typically entered at the factory, but can be entered in the UC600 controller. If the equipment was field-installed, this field will be blank.

Unit Serial Number

This number applies to the piece of equipment that the UC600 is controlling. This number is typically entered at the factory, but can be entered in the UC600 controller. If the equipment was field-installed, this field will be blank.

Controller Product Name

The controller product name will always be UC600.

Controller Hardware Date Code

This is the serial number of the UC600.

Controller Hardware Part Number

This is the part number for the UC600, whether factory or field-mounted it will be the same.

Controller Build Part Number

This is the firmware version that is currently running on the controller. Firmware is similar to an operating system on a PC.

Controller Backup Firmware

The firmware that runs when the controller is in service mode. The primary function of this firmware is to provide a minimal boot of the controller so that a new controller build can be loaded on the controller should it be necessary.

Display Software Build

This is the version of the application code or operating system that is running on the TD7 display.

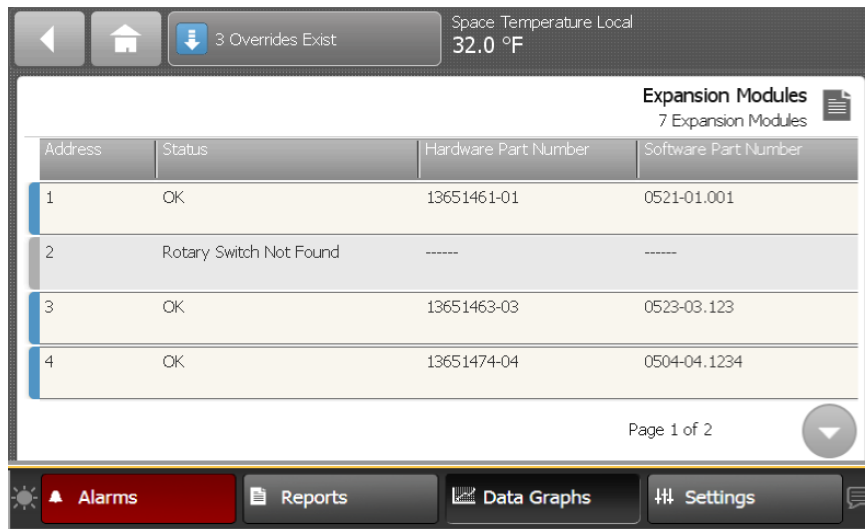
Display Boot Code

The application that starts the operating system when the TD7 is powered on.

Expansion Modules

Touch the **Expansion Module** button to view the Expansion Modules screen. If expansion modules have been installed, they will appear in Expansion Modules screen ([Figure 22](#)).

Figure 22. Expansion modules screen



Address	Status	Hardware Part Number	Software Part Number
1	OK	13651461-01	0521-01.001
2	Rotary Switch Not Found	-----	-----
3	OK	13651463-03	0523-03.123
4	OK	13651474-04	0504-04.1234

Expansion module screen columns:

Address — This is the rotary address of the defined or discovered expansion module.

Status — Under normal conditions, OK will display in this column. If not refer to *Tracer XM30, XM32, and XM70 Expansion Modules IOM, BAS-SVX46*-EN*.

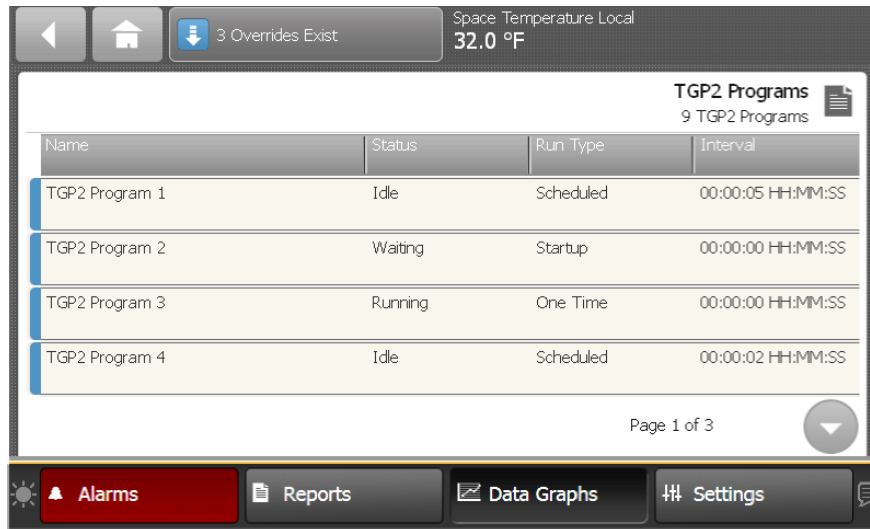
Hardware part number — This is the part number for the expansion module.

Software part number — This is the version number of the software running in the expansion module.

TGP2 Programs

Touch the **TGP2 Programs** button to view the TGP2 Programs screen. All TGP2 programs that have been installed on the controller appear here. The program name, status, run type, and interval for each program is provided. Interval is the scheduled run interval for the program and is displayed in HH:MM:SS. If the run type is Startup or Event, the interval field will display all zeros.

Figure 23. TGP2 Programs screen



The screenshot shows the TGP2 Programs screen with the following data:

Name	Status	Run Type	Interval
TGP2 Program 1	Idle	Scheduled	00:00:05 HH:MM:SS
TGP2 Program 2	Waiting	Startup	00:00:00 HH:MM:SS
TGP2 Program 3	Running	One Time	00:00:00 HH:MM:SS
TGP2 Program 4	Idle	Scheduled	00:00:02 HH:MM:SS

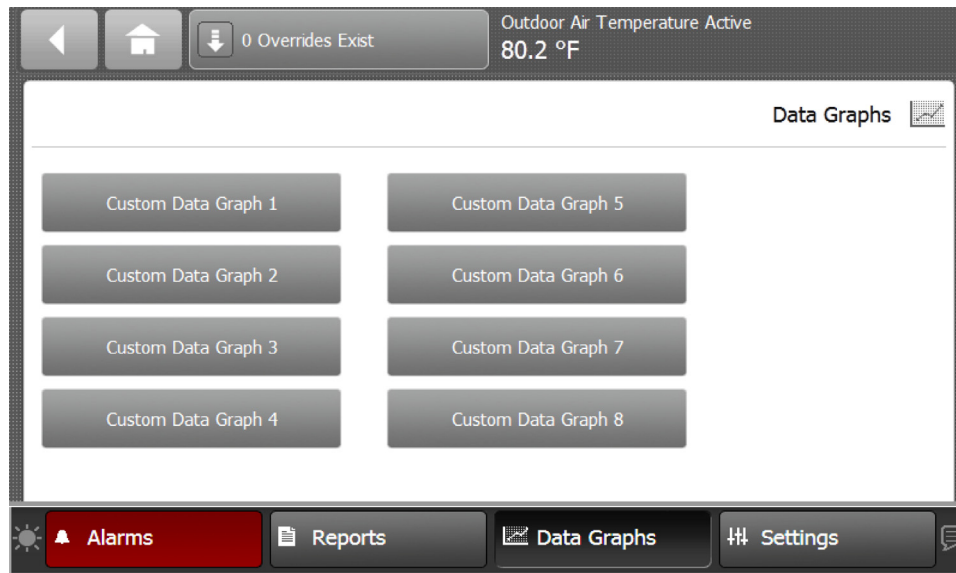
Additional screen details: Space Temperature Local 32.0 °F, 3 Overrides Exist, 9 TGP2 Programs, Page 1 of 3.

Data Graphs

Data graphs allow users to view trend logs from the Tracer UC600 controller in graphical format on the TD7 Display. Up to eight data graphs can be created with a maximum of four data logs per graph. Data graphs are user-defined and can be edited by changing the scale on the left and right Y-axis and choosing the line color.

Touch the **Data Graphs** button in the bottom display area to view the Data Graphs screen (Figure 24). The Data Graphs screen contains eight buttons that allow you to view and edit a particular configuration.

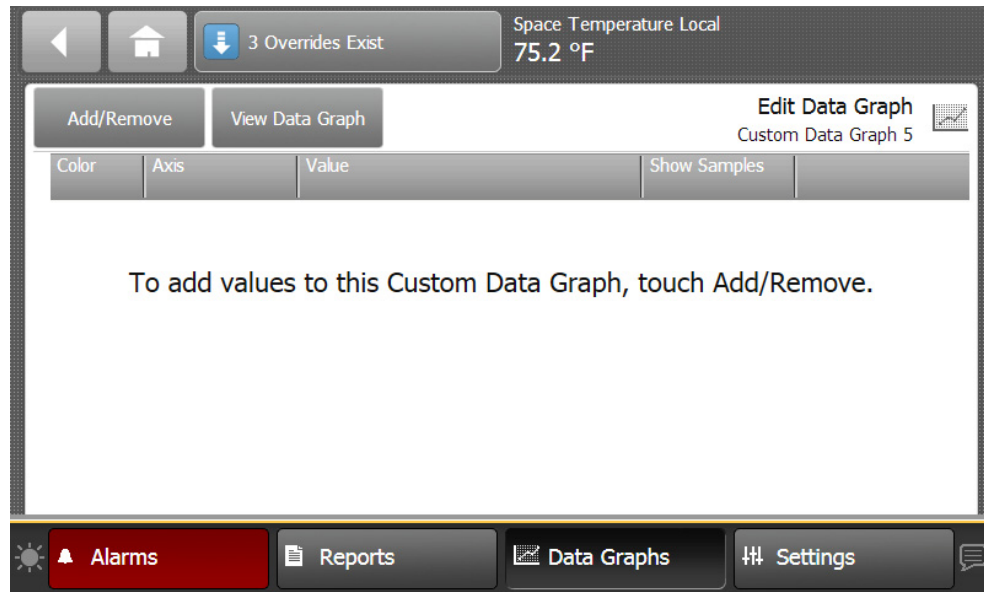
Figure 24. Data Graphs screen



Creating a Data Graph

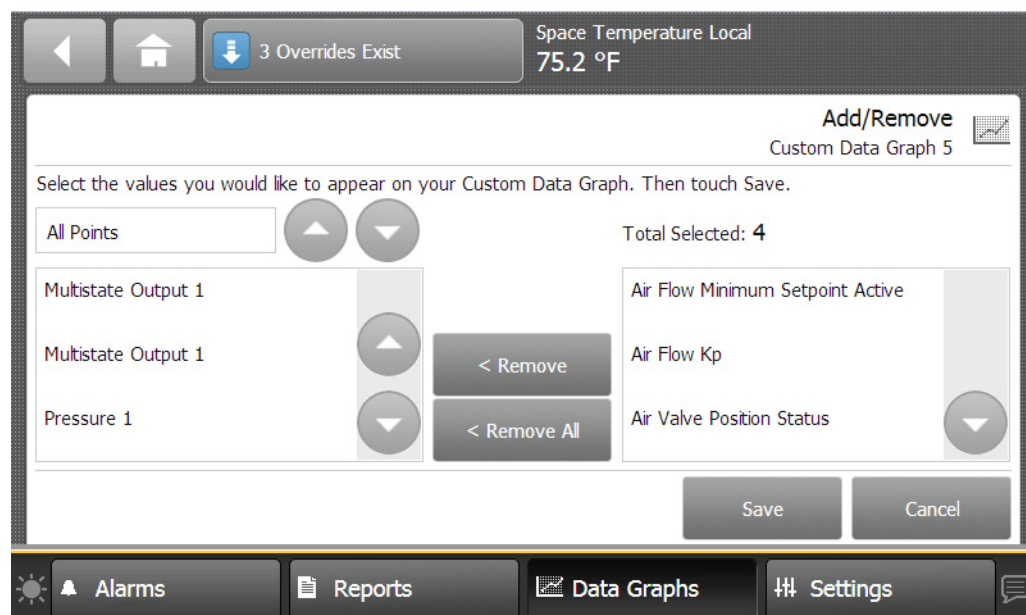
1. Navigate to the Data Graphs screen, then touch an available data graph button.
The Custom Data Graph screen appears.
2. Touch the **Edit Data Graph** button.
The Edit Data Graph screen appears (Figure 25, p. 33).

Figure 25. Edit Data Graph screen



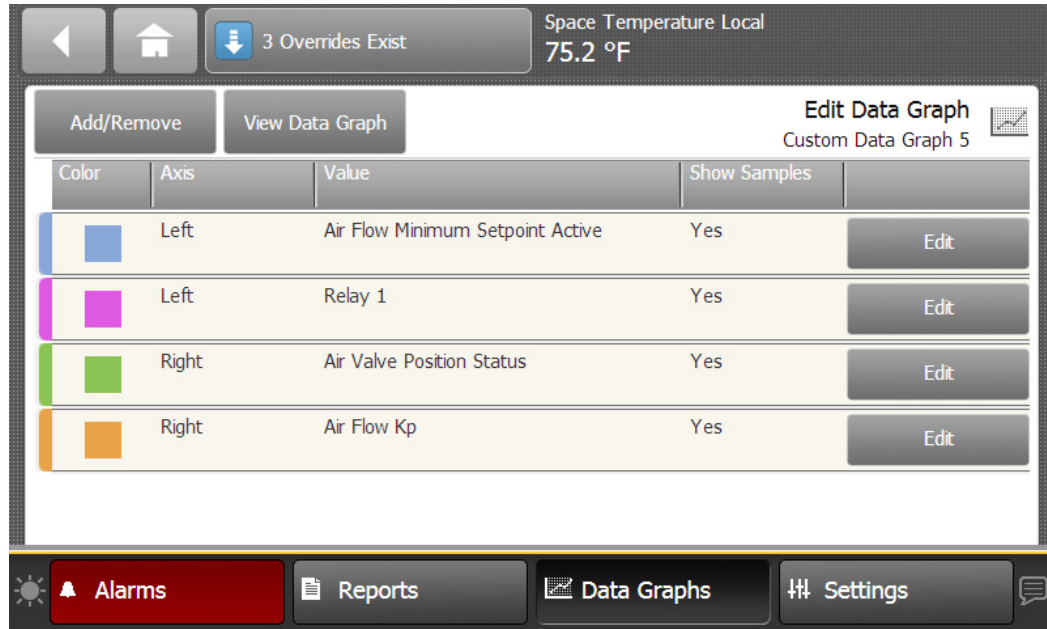
3. Touch the **Add/Remove** button to add values to the custom data graph. The Add/Remove screen appears.
4. Use the arrow buttons to select a datalog type: analog, binary, or multistate, which then populates the box directly below (Figure 26).
5. Select the values, then touch the **Add** button (up to four selections are allowed).
6. Touch the **Save** button. The Edit Data Graph screen appears, which reflects the selected values.

Figure 26. Adding data logs to the custom graph



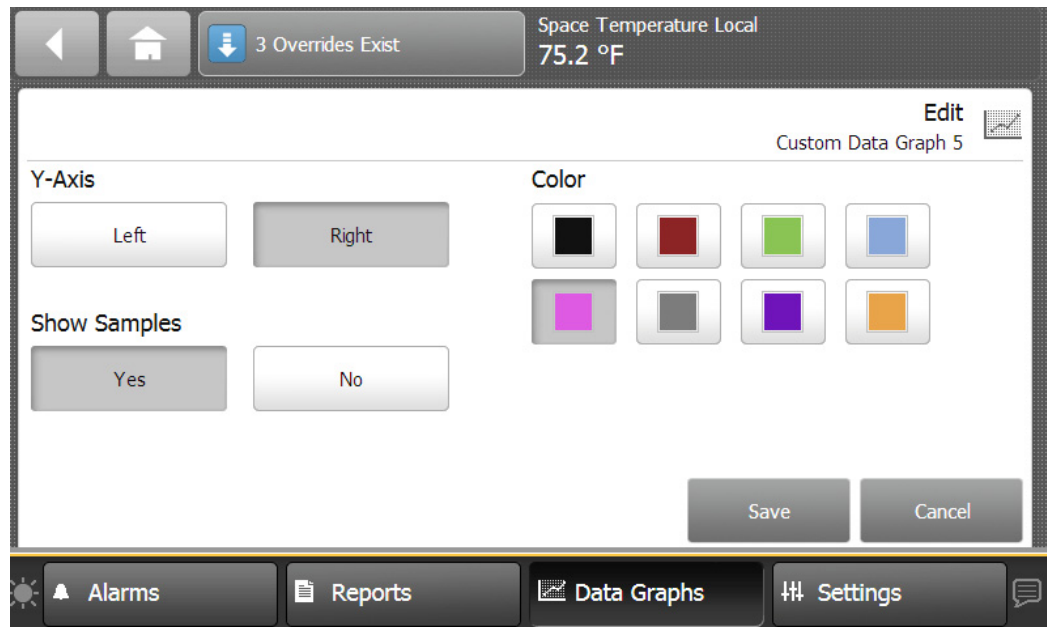
- Use the Edit Data Graph screen to modify the data graph. Touch the **Edit** button that corresponds with the value that you want to change. Only one value can be edited at a time.

Figure 27. Edit Data Graph screen (after values have been added)



- From the Edit screen you can choose which Y-axis to display the value, a color, and whether or not to show data samples. Touch the **Save** button when finished. Repeat the process with remaining values.

Figure 28. Customizing the data graph

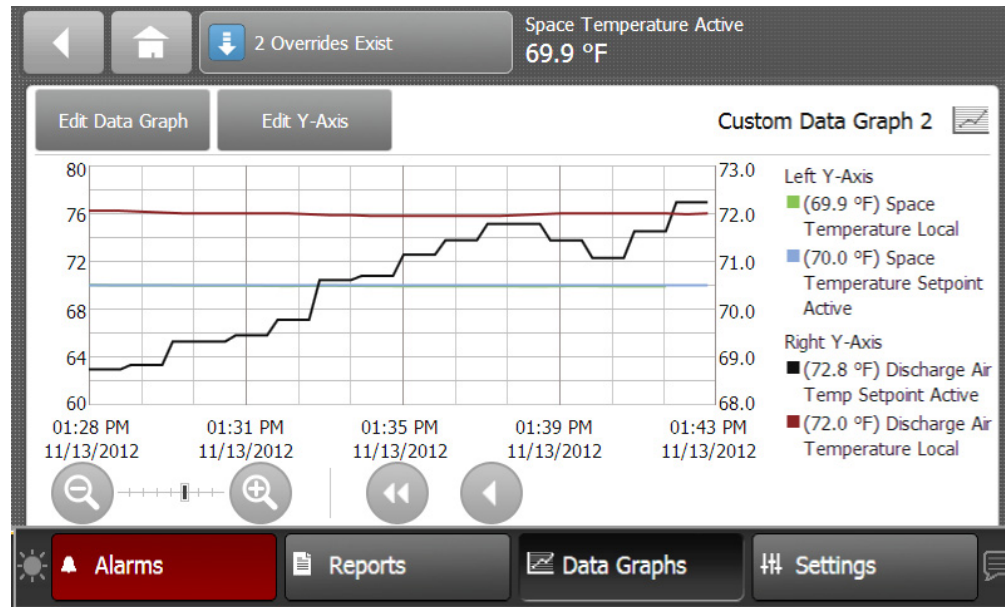


9. Touch the **View Data Graph** button to display the new graph (Figure 29).

Note: Depending on the sampling rate, the custom data graph may be empty for several hours.

You can make changes to the way data is presented on the graph at anytime. Touch the zoom-in icon and zoom-out icon to either increase or decrease the viewable time frame. This action also enables back and forward arrows that allow you to view data at various times of the day.

Figure 29. Viewing the data graph

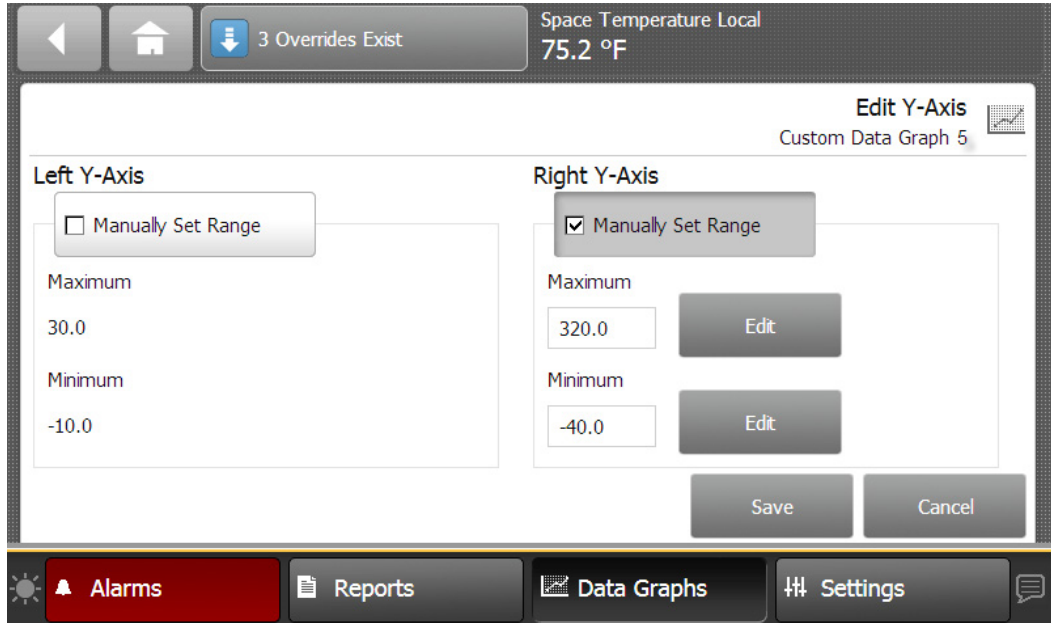


Editing the Y-Axis

The default values on the right and left Y-axes can be changed according to your specifications.

1. Touch the **Edit Y-Axis** button located on the top portion of the Custom Data Graph screen.
The Edit Y-Axis screen appears (Figure 26, p. 33).
2. Touch the **Manually Select Range** box for either the left or right Y-axis.
3. Touch the **edit** button next to one of the two value ranges.
The Keypad screen appears.
4. Select a new value and then touch **Enter** to save.

Figure 30. Repeat steps 2 through 4 until all preferred changes have been made. Editing the Y-Axis



The screenshot displays the 'Edit Y-Axis' configuration screen for 'Space Temperature Local' (75.2 °F). The interface is titled 'Edit Y-Axis' and 'Custom Data Graph 5'. It features two main sections: 'Left Y-Axis' and 'Right Y-Axis'. The 'Left Y-Axis' section has an unchecked 'Manually Set Range' checkbox, with a 'Maximum' value of 30.0 and a 'Minimum' value of -10.0. The 'Right Y-Axis' section has a checked 'Manually Set Range' checkbox, with a 'Maximum' value of 320.0 and a 'Minimum' value of -40.0. Each value in the 'Right Y-Axis' section is accompanied by an 'Edit' button. At the bottom of the configuration area are 'Save' and 'Cancel' buttons. The top navigation bar includes a back arrow, a home icon, and a notification for '3 Overrides Exist'. The bottom navigation bar contains icons for 'Alarms', 'Reports', 'Data Graphs', and 'Settings'.

Axis	Manually Set Range	Maximum	Minimum
Left Y-Axis	<input type="checkbox"/>	30.0	-10.0
Right Y-Axis	<input checked="" type="checkbox"/>	320.0	-40.0

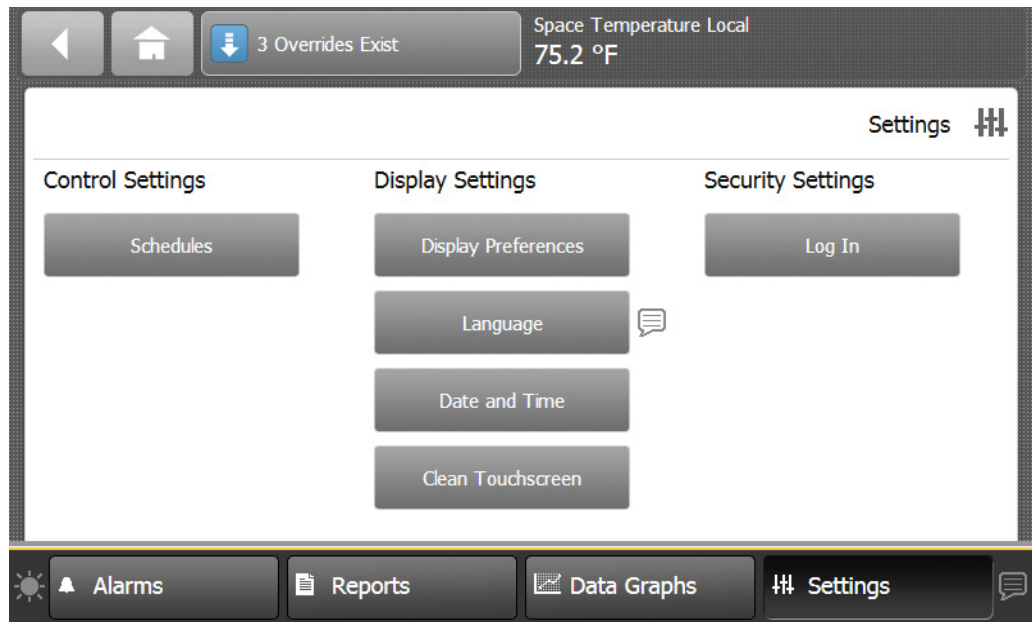
Settings

The Settings screen provides options for display settings, language, overrides and security. Touch the **Settings** button in the bottom display area to view the Settings screen.

Three categories for settings appear on the screen:

- Control Settings
- Display Settings
- Security Settings

Figure 31. Settings screen



Control Settings

This category contains the Schedules application.

Schedules

Touch the Schedules button to open the Schedules screen. The UC600 supports up to three schedules that can be created, view, and edited on the Tracer TD7 Display, at any given time. These include analog, binary, or multistate (HVAC scheduling is not currently supported). See [“Setting Up and Maintaining Schedules,” p. 43.](#)

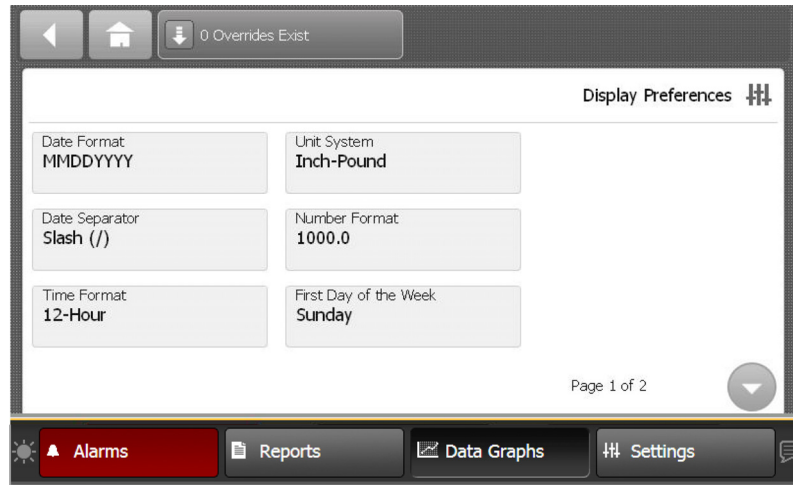
Display Settings Screen

The selections in this category contain settings that affect the way in which information is displayed on all of the TD7 display screens. From each screen, the current settings can be viewed. To change a setting, touch the preferred value.

Display Preferences

Touch the **Display Preferences** button to open the associated screen (Figure 32). On this screen, all available options to display information on the TD7 screens are available. There are two pages on this screen, accessed by using the arrow button at the bottom of the screen.

Figure 32. Display Preferences screen



Date Format

Touch the **Date Format** button to open the associated screen. Three options are available to display the current date: MMDDYYYY, DDMMYYYY, and YYYYMMDD.

Date Separator

Touch the **Date Separator** button to open the associated screen. Three options are available to display separators in the date format: None, Hyphen (-), or Slash (/).

Time Format

Touch the **Time Format** button to open the associated screen. Two options are available: 12-Hour format and 24-Hour format (also referred to as “military time”).

Unit System

Touch the **Unit System** button to open the associated screen. Two options are available: SI (system international) or IP (Inch-Pound).


Number Format

Touch the **Number Format** button to open the associated screen. Two options are available: period format (1000.0) or comma format (1000,0).

First Day of the Week

Touch the **First Day of the Week** button to open the associated screen. Specify the starting day for the week when viewing schedules and adding events. Options available: Saturday, Sunday, or Monday.

Brightness

Touch the **Brightness** button, or the brightness icon () located at the bottom left of each screen, to open the associated screen. Screen brightness is measured in percentage. Use the keypad to enter a new brightness number.

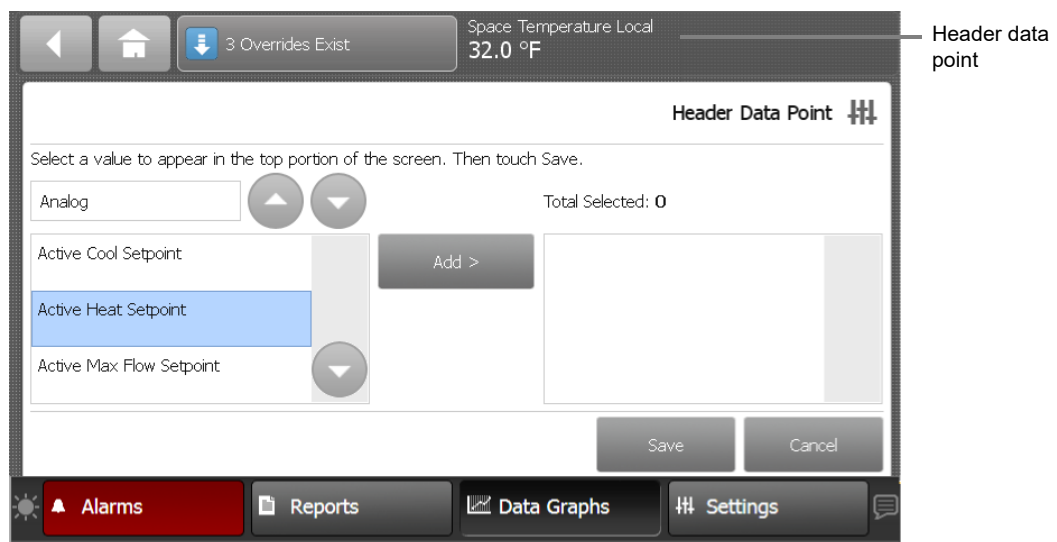
Backlight Timeout

Touch the **Backlight Timeout** button to open the associated screen. This value is measured in minutes, with 30 being the maximum limit. Use the keypad to enter a backlight timeout value. This value is the amount of time that the display will remain lit without activity. When the backlight times out, users will be automatically logged off due to inactivity.

Header Data Point

Use the arrow button on the Display Preferences screen to advance to page 2. Touch the **Header Data Point** button to open the associated screen. The Header Data Point appears in the top right display area on all screens. Use the arrow buttons to scroll through the points. Click **Add** to move the highlighted point to the right side of the screen (Figure 33, p. 39). Click **Save**.

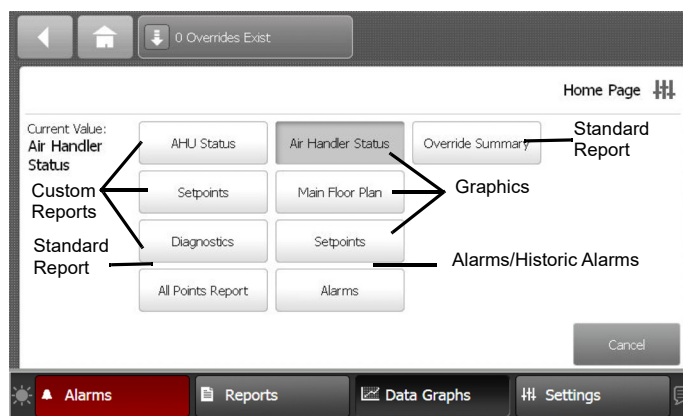
Figure 33. Setting the header data point



Home Page

Use the arrow button on the Display Preferences screen to advance to page 2. Touch the **Home Page** button to open the associated screen. This function allows you to choose what will display when the home button is touched. Available options are: the All Points report, the Override Summary Report, Active Alarms, any of the three Custom Reports, or any custom graphic.

Figure 34. Home Page screen



Language

Touch the **Language** button, or the language icon (🗨️) located at the bottom right of each screen, to open the open the Language screen. Twenty-five languages are available and represented on the selection buttons. Select a language that you want displayed on each TD7 screen and then touch **Save**. See “Supported Languages,” p. 8.

Figure 35. Language screen

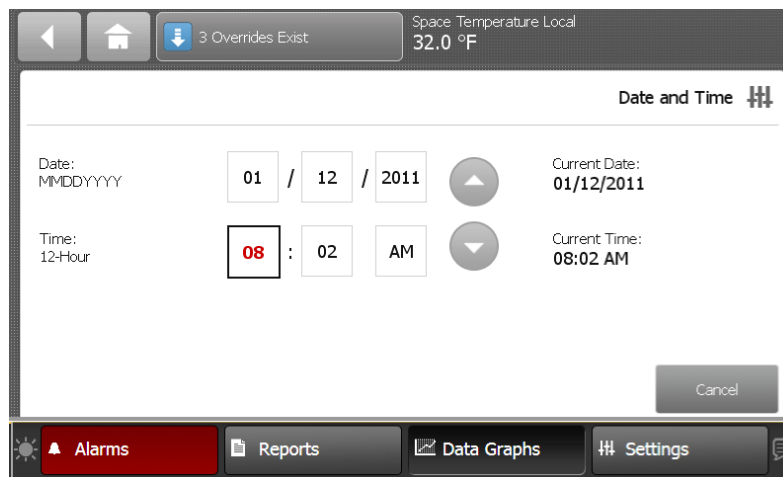


Date and Time

Touch the **Date and Time** button to open the associated screen. To enter a new date or time, touch the digit you want to change. When enabled for editing, the digit will appear red with a black border. when finished, touch **Apply** or **Save**. Or,

tap the digit twice which opens the keypad screen where you can make date and time entries. When finished, touch **Enter**; you will be returned to the Date and Time screen. Touch **Apply** or **Save**.

Figure 36. Date and Time screen



Clean Touchscreen

Touch the **Clean Touchscreen** button to safely clean the TD7 touchscreen using any brand of common household glass cleaner. When this button is touched, the screen background color becomes black, allowing dirt and fingerprints to become more visible. It also displays a countdown timer (five to zero seconds). Touch the screen anytime within the 5-second countdown to begin cleaning the screen (each touch resets the 5-second countdown).

Security Settings

If security is enabled, the Log In (or Log Out) button appear in the upper right portion under Security Settings.

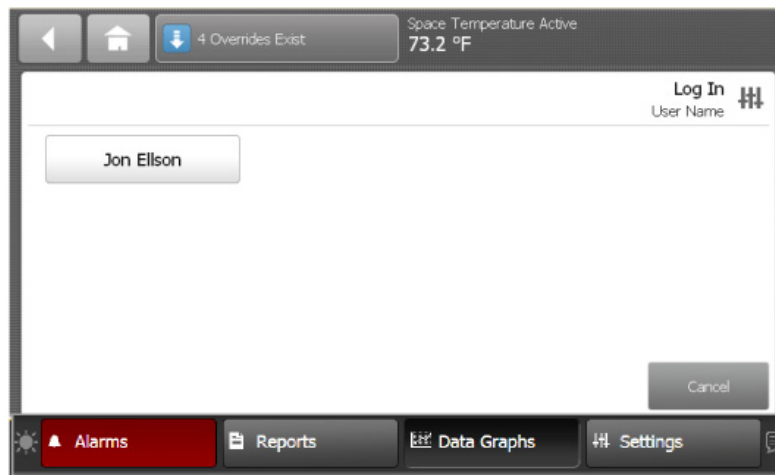
Note: *If the UC600 is connected using a USB cable, security for the TD7 is not enabled. Users are still prompted to enter a PIN; however, any combination of four numbers will be accepted allowing users to “log in.”*

Log In

Touch the **Log In** button to open the associated screen. Follow the procedure below to log in to the TD7 display.

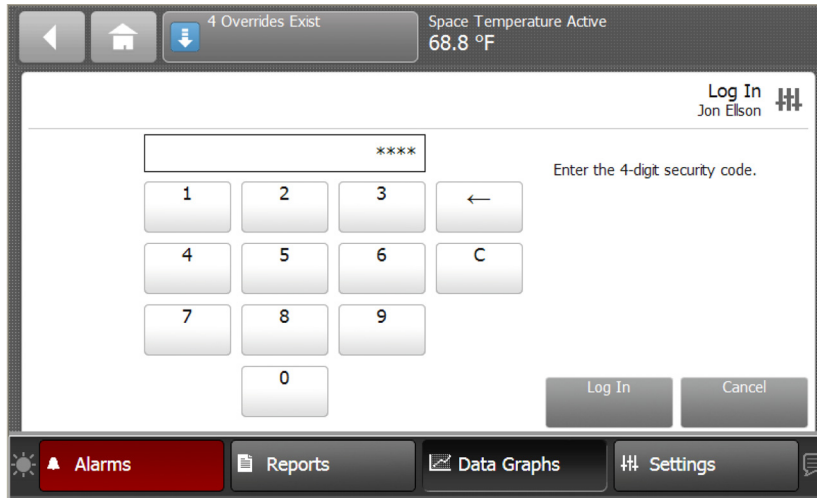
1. Touch the button labeled with your user name.

Figure 37. Log In screen (select user)



2. Click **Next**. The PIN Entry Screen opens ([Figure 38, p. 42](#)).
3. Use the keypad to enter your PIN, then touch **Log In**.

Figure 38. TD7 PIN entry screen

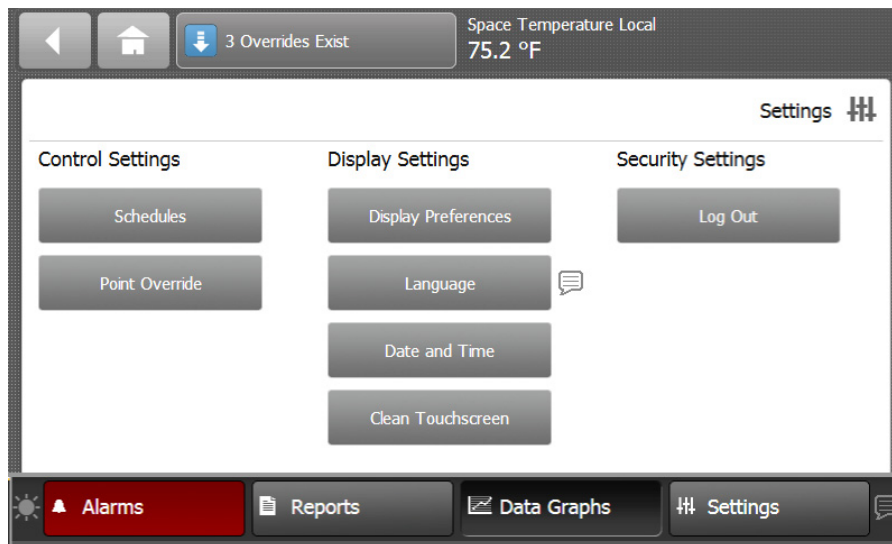


Log Out

To log out of the TD7, press the Log Out button on the Settings Screen (Figure 39.)

Note: Users are automatically logged out of the TD7 when the TD7 backlight has timed out. See [“Backlight Timeout,” p. 39.](#)

Figure 39. Logging out of the TD7 display



Setting Up and Maintaining Schedules

Tracer TD7 supports three types of schedules: analog, binary, and multistate. A maximum of three schedules can be created. Each schedule can contain up to 10 members, 10 events, and 25 exceptions.

Schedules are created on a series of “events” that occur on each day of the week. An event is a change in a value at a specific time that can occur during any day of the week.

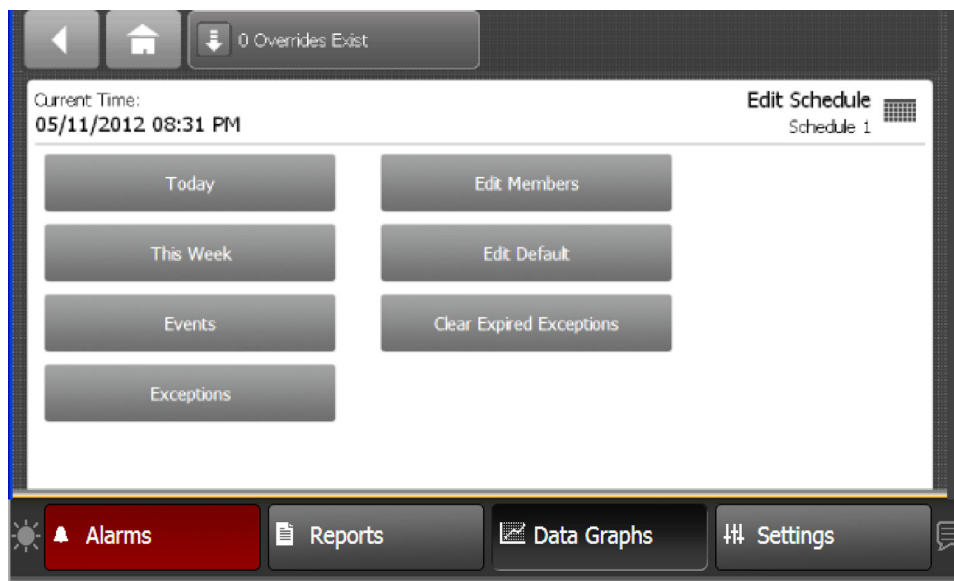
Each day is independent of the others and always begins with the schedule default value. The schedule default value is applied to each day of the week and is the value that the schedule defaults to at 12:00 a.m. for any given day.

Note: Scheduling requires installation of UC600 version 3.0 or higher firmware.

Creating a Schedule

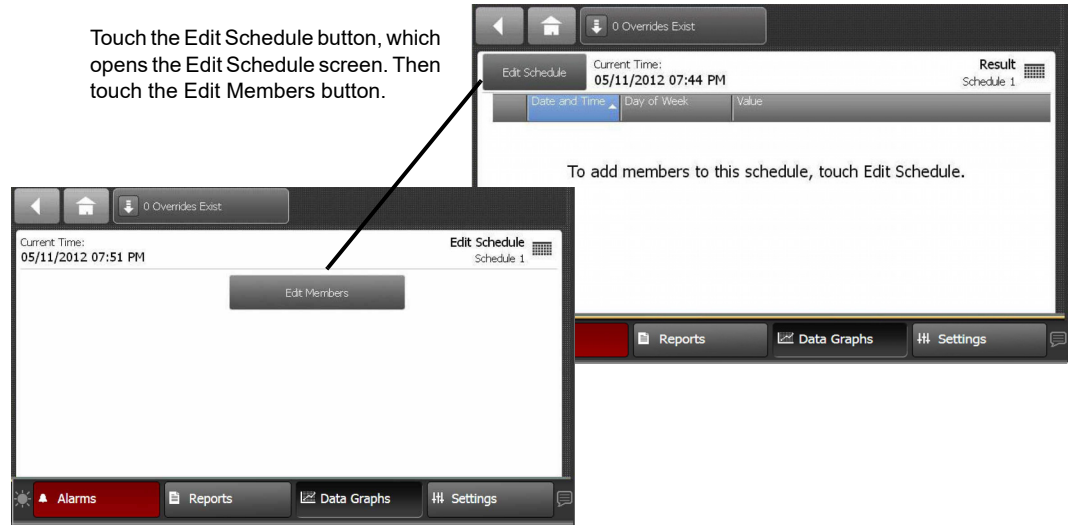
1. Navigate to the **Settings** screen, then touch the **Schedules** button.
2. Under **Inactive Schedules**, touch a schedule (Figure 40).

Figure 40. Schedules screen (no active schedules)



3. Touch the **Edit Schedule** button (Figure 41, p. 44), then touch the **Edit Members** button.

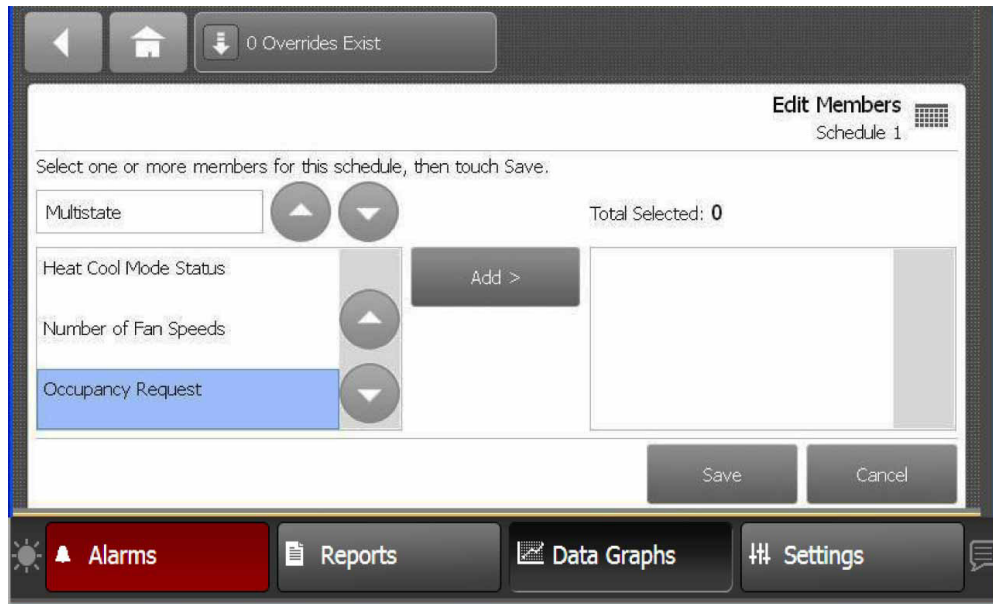
Figure 41. Creating a new schedule



4. Use the arrow buttons to select a point type to be scheduled: analog, binary, or multistate.
5. Select members for the schedule (Figure 42). When a selected member is highlighted, use the arrow button to add to the Total Selected list to the right. The member list is filtered to exclude all points other than the selected point type.

Note: If you select analog, the first member added will filter the remaining list of available members to display only members with the same units. The point type of the first member also determines the schedule type. After the schedule is saved, the schedule type cannot be changed unless the schedule is deleted.

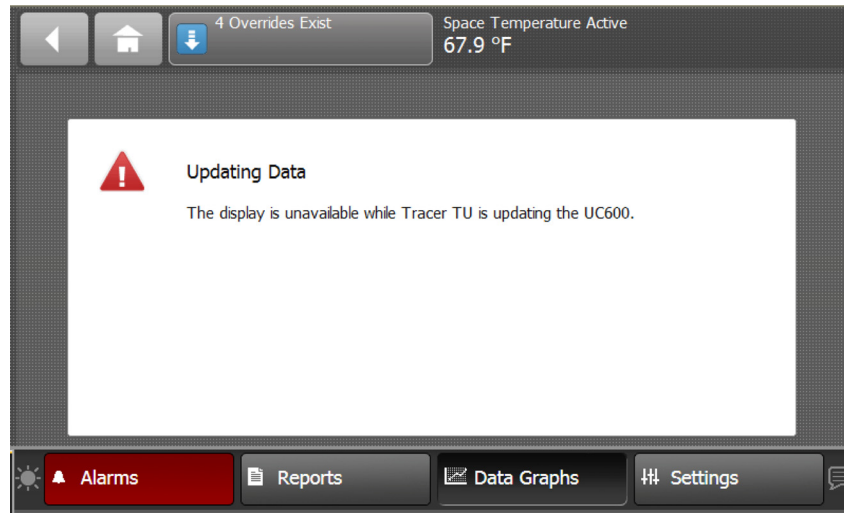
Figure 42. Adding members to a schedule



6. When you are finished adding members, touch **Save**.

Touching the Save button causes the TD7 to create the schedule, which renders the display as temporarily unavailable during the update (Figure 43).

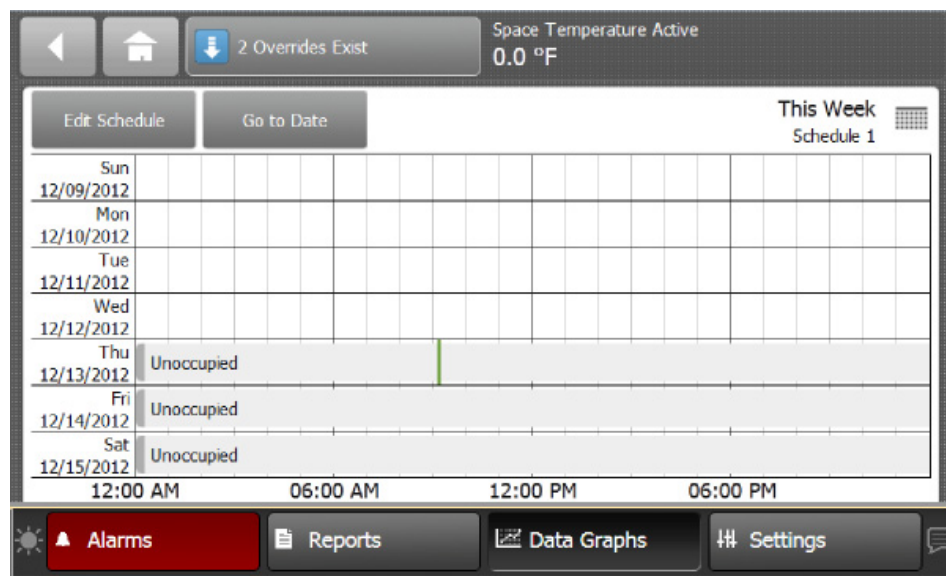
Figure 43. Updating data message



- After the update is complete, the schedule landing screen appears. Select the schedule you just created to view the schedule (Figure 44). To view an individual day in the schedule, touch the individual day, which opens the daily view screen. (It is not possible to view past days.)

The green bar in the weekly view indicates the current time. Any date that occurs in the past, is white. Exceptions (if any) will be a different color.

Figure 44. New schedule weekly view (no events)



Setting Schedule Defaults and Adding Events

After creating a schedule and selecting the members, the next step is to set schedule defaults and add weekly events. An event is defined as a time-value pair.

To access the daily view screen, touch the day of the week inside of the schedule in which you want to add events.

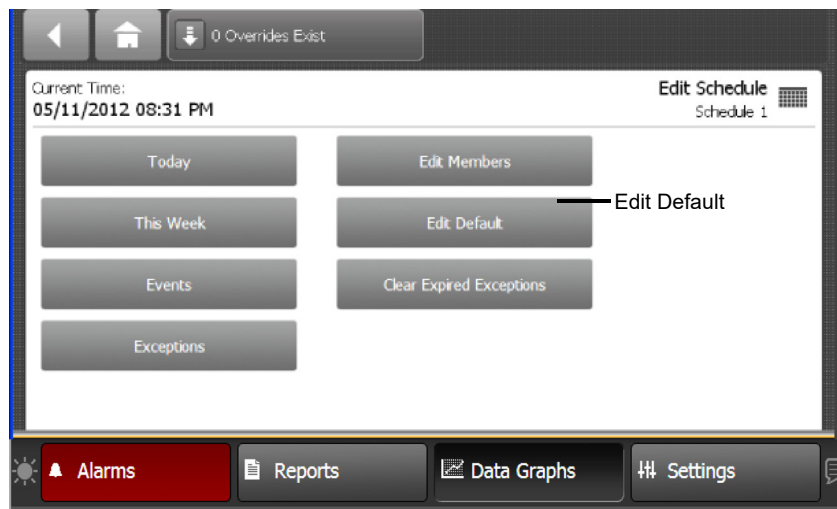
About the Schedule Default Value

- The initial default value for the three types of schedules are:
 - Analog = 0
 - Binary = Off/False
 - Multistate = State 2 (based on Occupancy Request where State 2 is unoccupied)
- The default value can be changed. (Changing the default value does not affect the actual configured default value of the point.)
- The default value goes into effect each day at 12:00 a.m, provided that no other event takes control at that time. It remains in effect until the first event of the day occurs or until 12:00 a.m. the next day.
- If the schedule member is a multistate point, the state text of the first selected member is used in all of the TD7 Schedule screens.

Setting Schedule Defaults

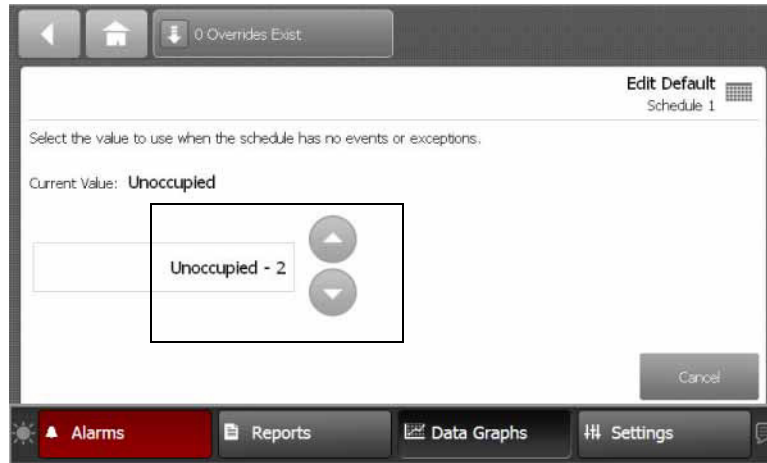
1. Open the schedule that you created in the above section, "[Creating a Schedule](#)".
When a schedule is created, the only event in the schedule is the schedule default value. This value occurs every day at midnight and cannot be removed. If the schedule default value is edited, the value applies to each day of the week in the schedule.
2. To edit the schedule default value, touch the **Edit Schedule** button ([Figure 44, p. 45](#)), then touch the **Edit Default** button ([Figure 45](#)). The Edit Default screen opens ([Figure 46, p. 47](#)).

Figure 45. Edit Schedule screen



3. Select a new default value, then touch **Save**. You are returned to the Edit Schedule screen.

Figure 46. Editing the default value

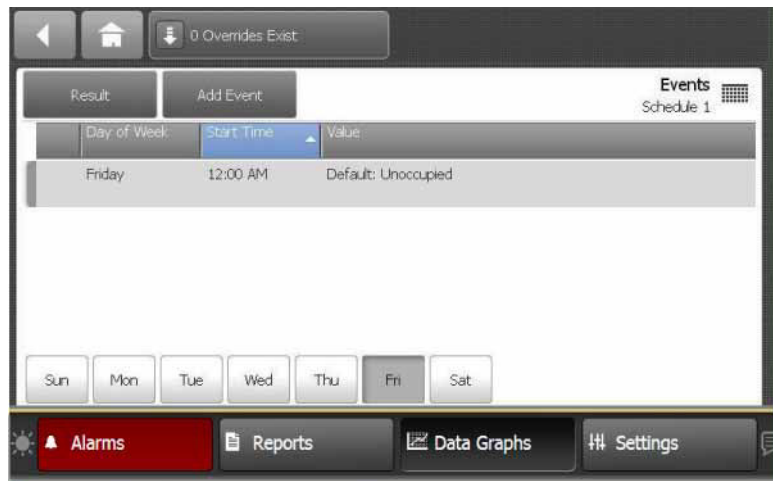


4. From the Edit Schedule screen, touch the **Events** button. The Events screen opens (Figure 47).

Touch any button on the bottom of the Events screen to view the normal events that occur on the selected day. To modify or add an event on a particular day, touch **Add Event**.

Note: *The Events screen and the Result screen may display different events for a particular day. Use the Events screen to view or add events for each day of the week. The Result screen shows what will actually occur on a particular day. When the Events screen and the Result screen show conflicting events, it is likely that an exception has been applied to that particular day.*

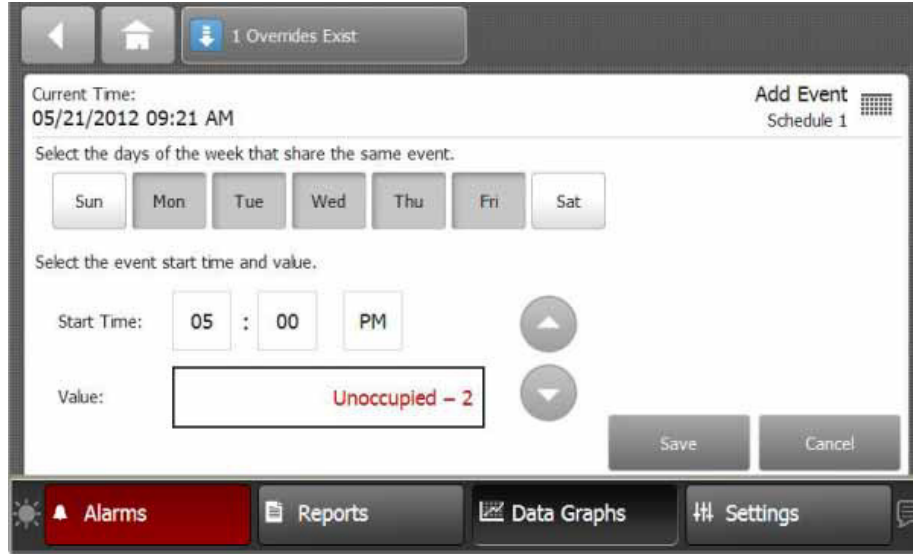
Figure 47. Events screen



Adding Events

1. To add an event, touch the **Edit Schedule** button, then touch the **Events** button (Figure 45, p. 46).
2. Touch the **Add Event** button, which opens the Add Event screen (Figure 48).
3. Touch one or more days of the week to which you want to apply the event.
4. Adjust the Start Time and Value to set the “time value pair” of the event.

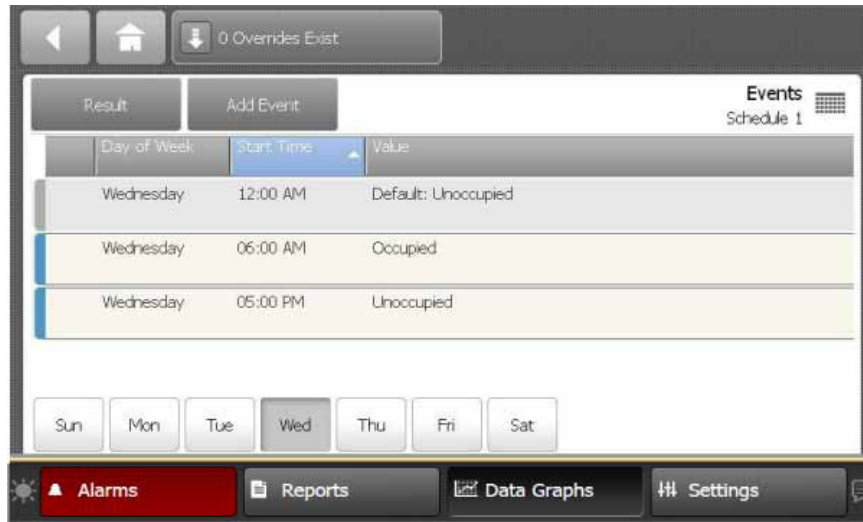
Figure 48. Add Event screen



5. When satisfied that the selected day(s) start time and value is correct, touch **Save**.
6. Repeat the above steps to add up to 10 events for each day of the week.

[Figure 49](#) shows what a typical daily view of a configured schedule will look.

Figure 49. Example of a typical schedule with events



Adding Exceptions to a Schedule

After you have created a schedule and have added events for each of the seven days, you can add exceptions for holidays and other special events. Each exception can also contain up to ten (10) of its own events. The Tracer TD7 can support up to 25 exceptions in a single schedule. However, it is not recommended to place more than one exception on a single day.

Adding an exception is a two-step process. First, the exception must be defined when it will occur. Secondly, specific event(s) must be defined that will occur on the defined exception date.

There are three different options for applying an exception to a schedule:

- Does not Recur — select this option for an exception that will be used for a single occurrence.
- Monthly — select this option to apply an exception that will occur regularly each month. For example, the third Tuesday of each month a PTA meeting is scheduled until 7:00 pm.
- Yearly — select this option to apply an exception that will occur on the same day each year. For example, January 1st (New Year's Day).

When stacked on a single day, the newest defined exception will have the higher rank for the day.

There are two primary purposes for exceptions:

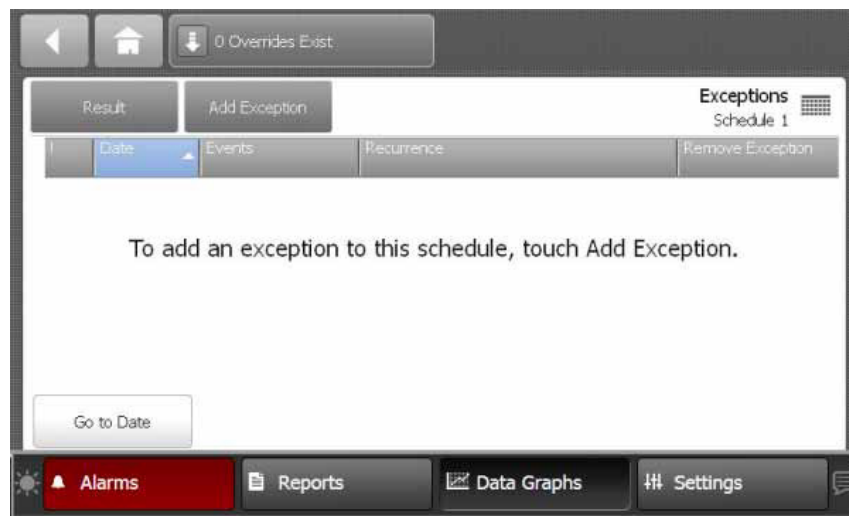
- To override an entire day.
- To extend or change a schedule's events over a normal daily schedule.

Note: *It is recommended that you define an exception event at midnight. The exception then takes control for the entire day, otherwise the normal weekly schedule will occur until the first exception event.*

Defining an Exception

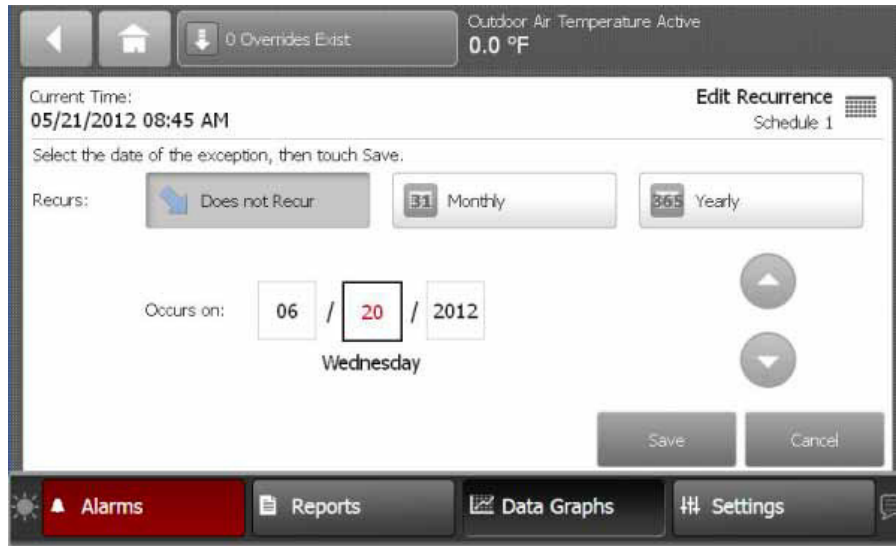
1. From the Result screen, touch the **Edit Schedule** button to open the Edit Schedule screen (Figure 45, p. 46).
2. Touch the **Exceptions** button. The Exceptions list screen appears (Figure 50).

Figure 50. Exception screen (no exceptions defined)



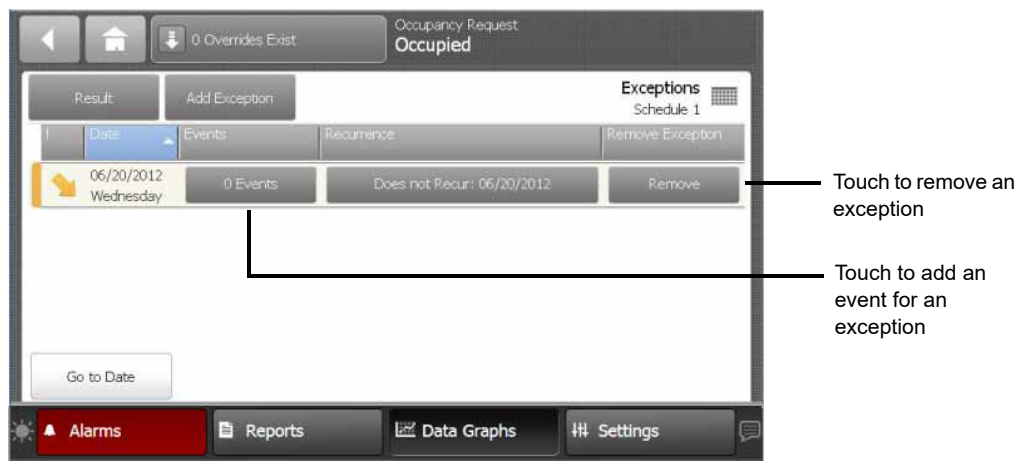
3. Touch **Add Exception**.
The Edit Recurrence screen displays (Figure 51, p. 50).

Figure 51. Edit Recurrence screen (Add Exception)



- Using the buttons and arrow controls, determine when the exception is to occur. Touch the **Save** button. The Exception screen displays, which contains the newly created exception (Figure 52).

Figure 52. Exceptions added (no events)

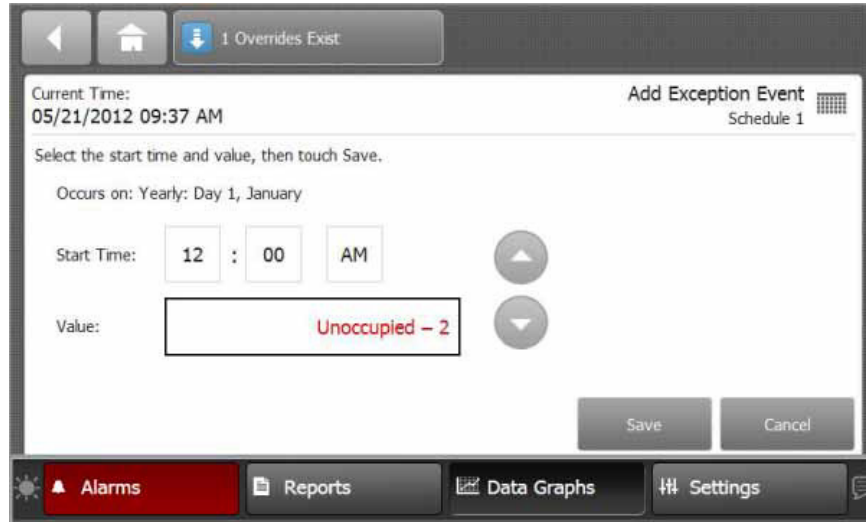


Adding Events for the Exception

- Touch the **Events** button to add an event to the exception. The Add Event screen opens.
- Click **Add Event**. The Exception Events screen opens (Figure 53, p. 51).

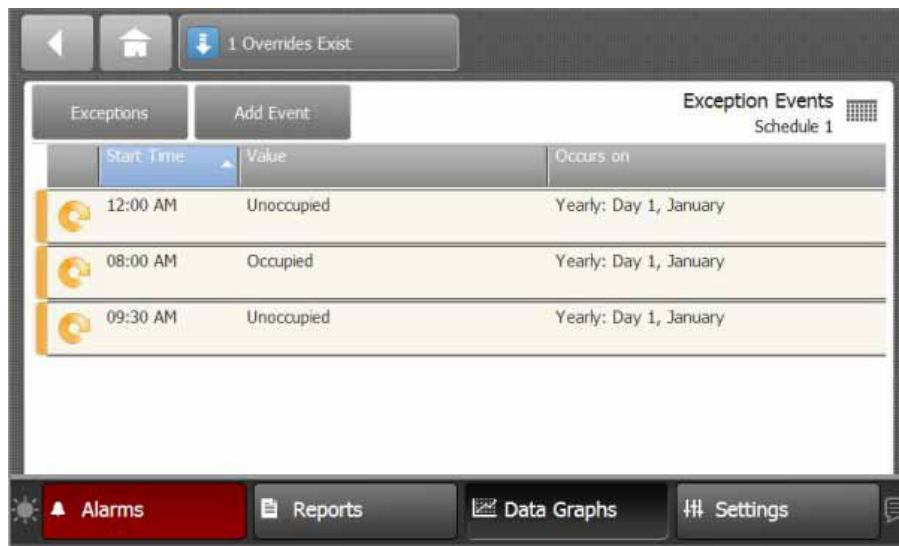
Note: It is best practice to schedule events for the entire day for when the exception is applied to ensure that control is taken away from the normal schedule. For example, enter an event at 12:00 a.m., another at 6:00 a.m., and another at 5:00 p.m.

Figure 53. Adding events to an exception



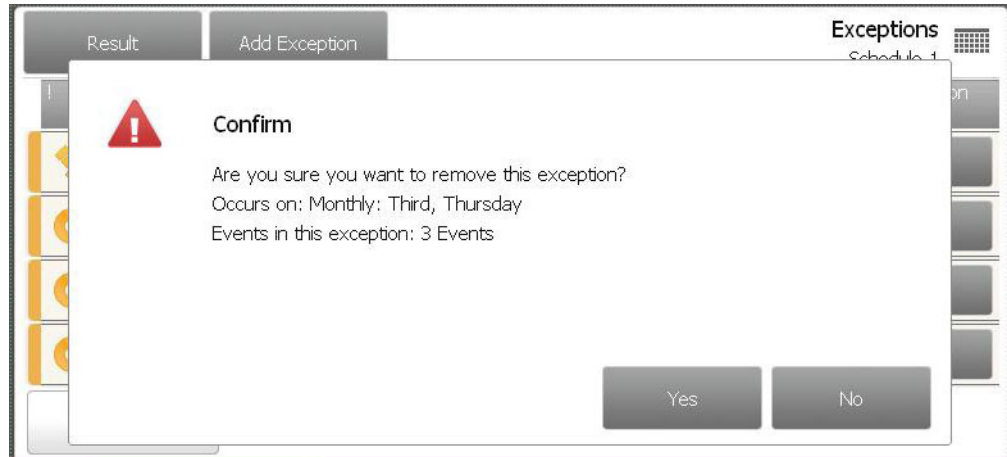
3. Continue to add your preferred events until the exception matches the desired outcome ([Figure 54](#)).

Figure 54. Schedule Exceptions (with defined exceptions)



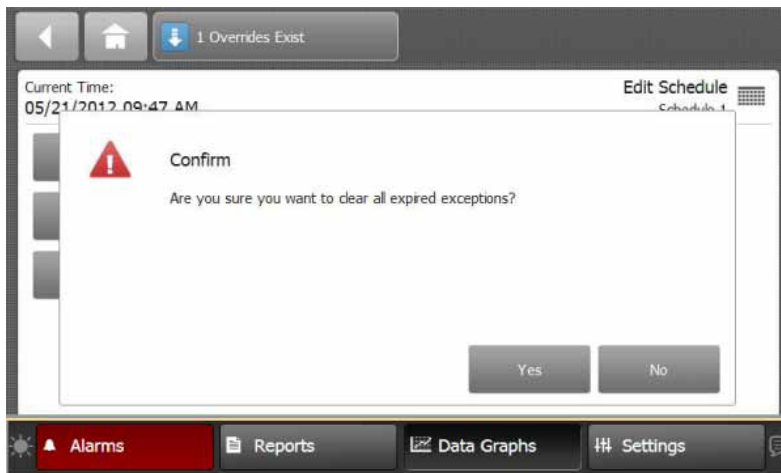
Removing Exceptions

1. To remove recurring exceptions that never expire, navigate to the schedule from which you want to remove exceptions.
2. Touch the **Edit Schedule** button, then touch the **Exceptions** button to display all current exceptions.
3. Locate the exception you want to remove, then touch the **Remove** button located at the far right of the exception.
A confirmation dialog box appears ([Figure 55](#)).
4. Touch the **Yes** button.

Figure 55. Removing exceptions

Clearing Expired Exceptions

1. Navigate to the schedule from which you want to clear expired exceptions.
2. Touch the **Edit Schedule** button.
3. Touch the **Clear Expired Exceptions** button on the Edit Schedule screen ([Figure 45, p. 46](#)).
4. Touch the **Yes** button to confirm ([Figure 56](#)).

Figure 56. Clearing expired exceptions

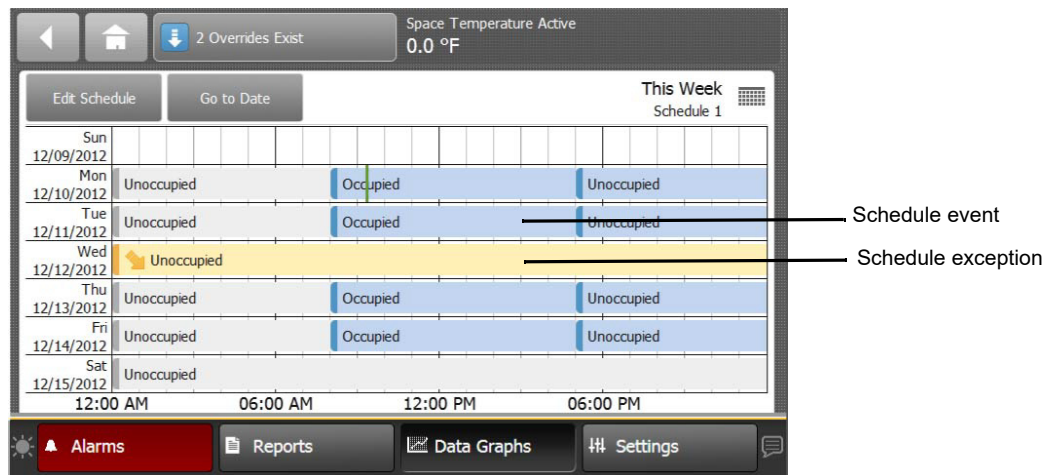
Viewing the Schedule

After creating a weekly schedule, adding events, and applying exceptions, the resulting schedule can be viewed (Figure 57) at anytime by touching Settings > Schedules, then select a schedule.

Touching an event in the This Week screen will navigate you to the Add Events screen for the selected day. From there you can modify existing events or add additional events.

Touching an exception from the Weekly view will navigate you to the Add Events screen for the selected exception. From there you can modify existing events or add additional events.

Figure 57. Viewing the resulting schedule (This Week view)

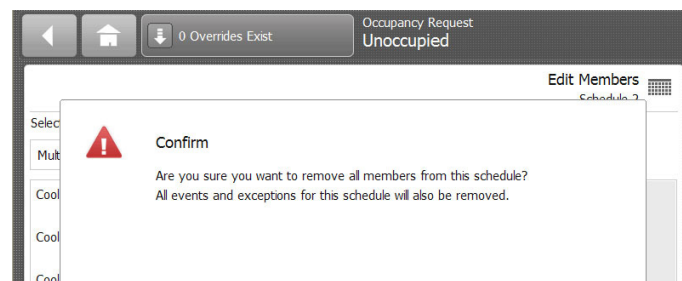


Deleting a Schedule

Schedules are deleted by removing all the schedule members. When a schedule is deleted, it will release all control of the members.

1. Navigate to the Add Members screen by touching Settings, then Schedules.
2. Select the schedule that you want to delete.
3. Touch Edit Schedule, then Edit Members.
4. Remove all members from the schedule, then touch the **Save** button. Touch the **Yes** button to confirm (Figure 58, p. 53).

Figure 58. Deleting a schedule





Troubleshooting

This section describes the possible error messages and other issues that you may encounter while using the Tracer TD7 display.

Identifying and Diagnosing Issues

Problem	Possible Cause	Possible Solution
Blank display (TD7 does not respond to touch).	No power.	Verify that the TD7 is connected to a power source, and that the power source is in working condition.
Unable to log in to the TD7 display.	Invalid password.	Password must be reset in Tracer TU. Open a session of Tracer TU. Refer to "Setting Up Security," p. 65.
After powering up, the TD7 displays a message that it is not communicating with the UC600.	Defective Ethernet cable or not connected, or the UC600 is not powered up.	Verify that the Ethernet activity indicator light on the UC600 is blinking, which indicates that it is connected. Replace cable if necessary. Power up the UC600 if necessary.
	UC600 must be at version 2.0 or higher.	If necessary, download an upgraded version of Tracer UC600.
After performing an override, the point does not display the new value.	A priority level conflict may be present. See "Overrides," p. 19.	Higher priority level (1-7) control of the point must be released before a TD7 override will take affect. This must be done in TU, SC, or ES.
Temporary overrides disappeared.	Power was cycled, which deletes all temporary overrides, or Temporary override time expired.	Deleted overrides must be reset.
Unable to release all overrides	One or more overrides has not been defined at priority level 8 (required to release all). TD7 only releases at priority level 8.	Change priority level on those that are not at 8. This must be done in TU, SC, or ES.
No data available in custom report.	Data has not yet been defined for the report.	Add data to report. See "Creating a Custom Report," p. 25.
Unable to add more points to a custom report	The maximum number of points (36) has been reached, or security prevents it.	Edit the report, or create an additional custom report. See "Creating a Custom Report," p. 25.
Unable to clear all alarms.	All Alarms (event log) can only be cleared in Tracer TU.	Open a session of Tracer TU. Refer to "All Alarms," p. 68.

TD7 Automatic Rediscover and Automatic Hardware Reboot

When performing one or more of the following actions listed below, a message will appear on the screen that the TD7 is updating data ([Figure 59, p. 55](#)).

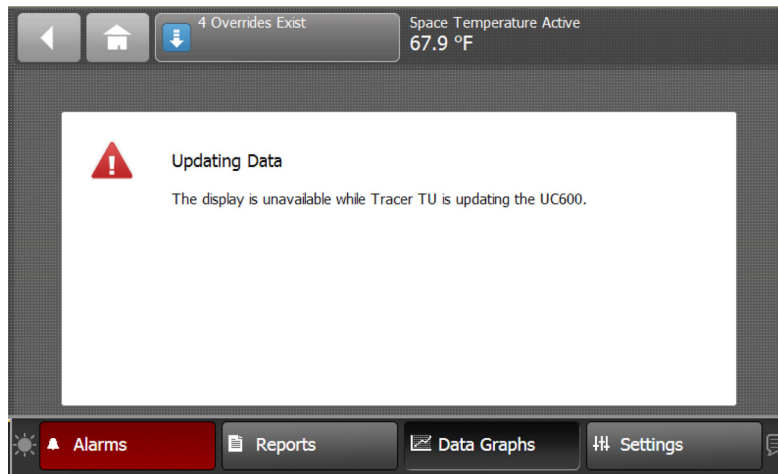
Automatic rediscovery (Updating data):

- Add a new point
- Remove a point
- Rename a point
- Modify Display Preferences or Language (from TU)
- Modify Custom Report or Header Data Point (from TU)

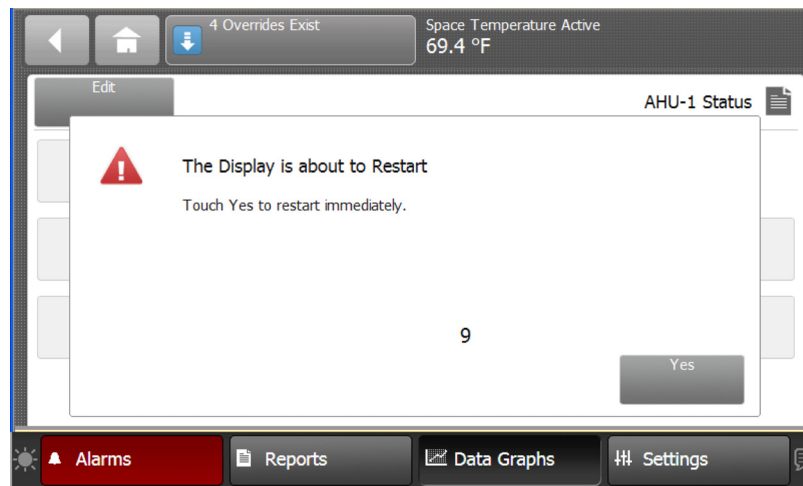
Automatic restart of TD7:

This will occur when modifying security settings: when a first and last user is added and deleted (enables, disables security), or when the UC600 restarts.

Figure 59. Automatic rediscover and automatic restart messages



Automatic rediscover:
This message appears when data is being updated.




Automatic restart:
This message appears whenever a user is added or deleted.

Upgrading Firmware

Firmware upgrades require the use of Tracer TU (version 8.0 or higher).

Note: *Tracer TU version 8.1 ships with TD7 firmware. The information in this section is provided should a firmware update become necessary. TD7 firmware upgrades are not recommended unless instructed by Trane St. Paul Technical Support.*

Note: *If upgrading the TD7 with firmware prior to Version 4.06, the TD7 must first be upgraded to Version 3.02.03. All other upgrades can be completed in one step. Your current TD7 firmware can be found on page 2 of the About screen (“About,” p. 29).*

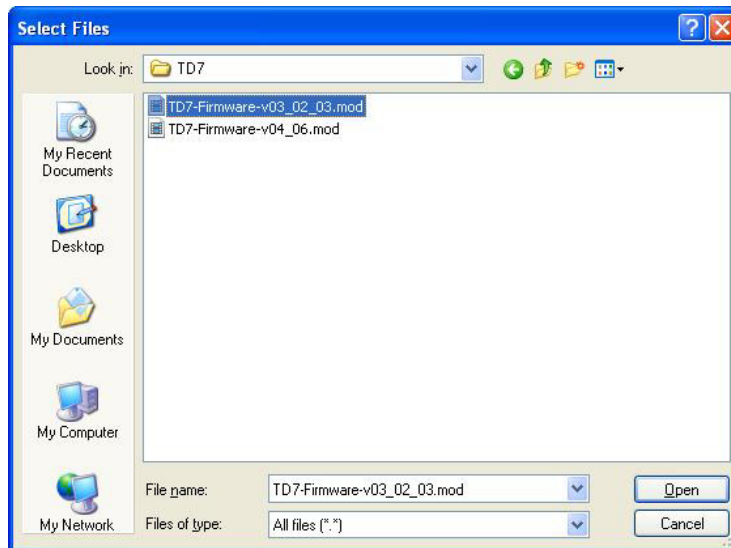
1. Connect Tracer TU to the UC600 using a USB connection (direct connect).
2. Click the file transfer utility icon () located on the upper left portion of Tracer TU, then click **next**.
3. Select the TD7 from the **Selected devices** (Figure 60). Click **next**.

The **Choose the Files Affected** dialog box appears.

NOTICE:

Equipment Damage!
 Do not power down the Tracer UC600, the Tracer TD7, or remove the USB cable during file download. Doing so will damage the Tracer TD7.

Figure 60. Selected Devices dialog box (choose TD7)



4. Click **Browse**, which opens the **Selected files** dialog box.
5. Select a firmware file such as TD7-Firmware-vxx_xx.mod.
6. Click **open** to open the file (the firmware file).
7. Click **Start Transfer**. A series of files begin downloading.
 A confirmation dialog box will appear upon completion of the file transfer.



Notes

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

Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.