

# Q-TRAK™ XP INDOOR AIR QUALITY MONITOR MODEL 7585



OPERATION AND SERVICE MANUAL

P/N 6013907, REVISION B  
MARCH 2021



Shown with optional battery  
cover with tripod mount and  
tabletop tripod (P/N 800129)



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# Safety

This section provides instructions to ensure safe and proper operation of the Q-Trak™ XP Indoor Air Quality Monitor Model 7585.



## WARNING

- The instrument must be used in the manner described in this manual. Failure to follow all of the procedures described in this manual can result in serious injury to you or can cause irrevocable damage to the instrument.
- There are no user-serviceable parts inside the instrument. Refer all repairs to a qualified factory-authorized technician.
- The Q-Trak™ XP monitor is not rated for intrinsic safety. **DO NOT** operate the Q-Trak™ XP monitor under conditions where there is a risk of fire or explosion.

## Description of Caution/Warning Symbols

Appropriate caution/warning statements are used throughout the manual and on the instrument that require you to take cautionary measures when working with the instrument.

### Caution






## CAUTION

---

## Caution and Warning Symbols

The following symbols may accompany cautions and warnings to indicate the nature and consequences of hazards:

	Warns that the instrument contains a laser and that important information about its safe operation and maintenance is included in the manual.
	Warns that the instrument is susceptible to electrostatic discharge (ESD) and ESD protection should be followed to avoid damage.
	Indicates the connector is connected to earth ground and cabinet ground.

---

## Battery Safety and Disposal

This instrument uses a rechargeable Lithium ion battery with built-in protection against safety hazards. **Always dispose of Li-ion batteries and transport Li-ion batteries in compliance with regional regulations.**



## Laser Safety

The Q-Trak™ XP Model 7585 is a Class I laser-based instrument. During normal operation, the user **WILL NOT** be exposed to laser radiation.

The following precautions should be taken to avoid exposure to hazardous radiation in the form of intense, focused, visible light.

- **DO NOT** remove any parts from the Q-Trak™ XP monitor unless you are specifically told to do so in this manual.
- **DO NOT** disassemble the Q-Trak™ XP monitor. There are no user-serviceable components inside the instrument.



### WARNING

The use of controls, adjustments, or procedures other than those specified in this manual may result in exposure to hazardous optical radiation.






### WARNING

If the Q-Trak™ XP monitor is used in a manner not specified by the manufacturer, the protection provided

## Labels

Advisory and identification labels or markings are attached to the instrument.

<p>1. Multi-sensor module</p>
-------------------------------

<p>9. Nitrogen Dioxide sensor</p> <div data-bbox="191 146 510 349"> <p><b>NO2</b>  P/N 801405  S/N 14052043001</p>   <p>Made in USA  www.tsi.com</p>  </div>
---

---

## Reusing and Recycling



As part of TSI® Incorporated's effort to have a minimal negative impact on the communities in which its products are manufactured and used:



**DO NOT** dispose of use batteries in the trash. Follow local environmental requirements for battery recycling.



If instrument becomes obsolete, return to TSI® for disassembly and recycling.

## CHAPTER 1

# Overview

The Q-Trak™ XP Indoor Air Quality (IAQ) Monitor is designed for Indoor Air Quality and Industrial Hygiene professionals to address a wide range of indoor air quality assessments and analysis. The Q-Trak™ XP monitor combines multiple-gas and particle measurements into a single lightweight, handheld instrument that is easy to configure, maintain, and calibrate in the field. The Model 7585 includes sensors for simultaneous measurements of temperature, relative humidity, barometric pressure, mass concentration, particle concentration, carbon dioxide, and room for up to five additional pluggable gas sensors. With enough on-board memory to record data from all sensors for 100 days when sampling data once a minute.

Also included with the Q-Trak™ XP monitor is TrakPro™ Ultra software application used for posttest analysis and report generation. Refer to [Chapter 10](#) for more information.

These Application Notes for the Q-Trak™ can be found under TSI's web site at [www.tsi.com/7585](http://www.tsi.com/7585).

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## Unpacking and Parts Identification

Carefully unpack the instrument and accessories from the shipping container. Check the individual parts against the list of components below. If anything is missing or damaged, notify TSI® immediately.

All standard equipment can be purchased separately if needed.

### NOTE

Optional gas sensors are shipped in individual boxes but are included in the main shipping container.



### NOTE

The lithium-ion battery is shipped in the same box as the instrument; however, it cannot be pre-installed in the Q-Trak™ XP instrument prior to shipment as required by law.


## Standard Equipment

Part No.	Description	Picture
7585	Includes Q-Trak™ XP Base Meter with Multi-Sensor IAQ Module and the following sensors: <ul style="list-style-type: none"> <li>• PM 2.5 sensor</li> <li>•</li></ul>	



Part No.	Description	Picture
801430	IAQ Multi-Sensor Gas Module with Built-in Sensors: Temperature, Relative Humidity, Barometric Pressure, Particle	
801399	CO <sub>2</sub> (Carbon Dioxide), NDIR (Nondispersive Infrared sensor)	
800121	Carrying Case	
800123	Lithium Ion Rechargeable Battery Pack	
804001	USB Cable	
800122	AC Adapter/Power Supply	
N/A	Calibration certificates	N/A
6013907	Q-Trak™ XP User Manual ( <i>English</i> : Included on USB drive)	

Part No.	Description	Picture
800120	Gas Sensor Calibration Cap	
7004280	USB Flash Drive with Q-Trak™ XP manuals and other literature. Included with 7585.	




## Optional Gas Sensors

Part No.	Description	Picture
801399	CO <sub>2</sub> (Carbon Dioxide), NDIR (Nondispersive Infrared sensor)	 (801403)
801400	Cl <sub>2</sub> (Chlorine), EC (Electrochemical Sensor)	
801401	CO (Carbon Monoxide), EC (Electrochemical Sensor)	
801402	H <sub>2</sub> S (Hydrogen Sulfide), EC (Electrochemical Sensor)	
801403	NH <sub>3</sub> (Ammonia), EC (Electrochemical Sensor)	
8014		

## Optional Accessories

Part No.	Description	Picture
800124	Wi-Fi® dongle	
800129	Q-Trak™ XP Battery Cover with Tripod Mount and Tabletop Tripod	

## Other Replacement Parts

Part No.	Description	Picture
800120	Q-Trak™ XP Gas Sensor calibration cap	
800121	Q-Trak™ XP Case: hard sided carry case	
800126	Battery Cover	

Part No.	Description	Picture
800127	Sensor Module Cover	
800125	Battery cover with tripod mount	
800128	Tabletop Tripod	N/A

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## Providing Power to the Q-Trak™ XP

The Q-Trak™ XP monitor can be powered with provided lithium-ion battery or with the provided A/C adapter.

### Operating the Instrument with the AC Adapter

The instrument can be operated with or without a battery using the A/C adapter.

To operate the instrument with AC adapter:

1. Plug the AC adapter into an electrical outlet.
2. Plug the other end into the instrument.



#### NOTE

In general, TSI® recommends operating the Q-Trak™ XP monitor with a battery even when powering the instrument with an AC power supply. Having a battery installed shortens the warm-up time needed for sensors to make accurate measurements.




4. Attach the battery compartment cover, ensuring battery wires are clear of the screw.

#### IMPORTANT

Always calibrate the battery Power Gauge after installing a battery pack.



### Charging the Battery and Calibrating the Power Gauge

1. With the battery installed, turn on the instrument by pressing the power button  and **run until the battery is fully discharged**. The instrument will automatically turn off when the battery is fully discharged.

#### NOTE

The battery is shipped with approximately 25% to 30% charge.

2. Connect the AC adapter to the





5. Refer to of the user guide in “help” menu within TrakPro™ Ultra software for operation information.



## Operational Overview

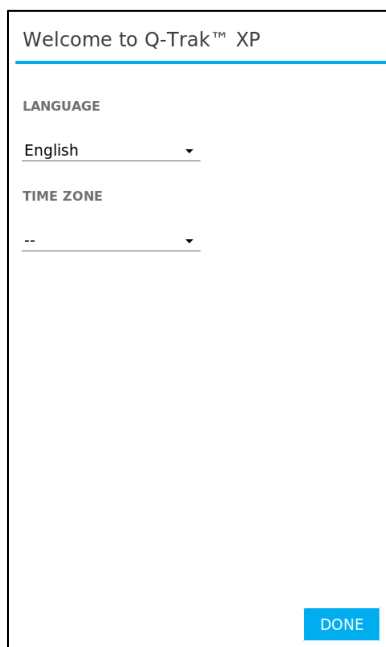
### Powering ON the Q-Trak™ XP Monitor

Press and release the power button . A progress bar will appear as the instrument boots.

To power down the instrument, press the power button  and press **shutdown** from the pop-up screen

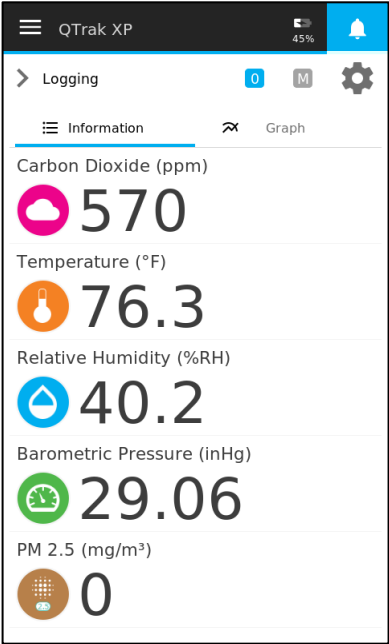
The first time the Q-Trak XP monitor is powered ON the **Welcome to Q-Trak™ XP** page is presented. Select the appropriate **Language** and **Time Zone** then select **DONE**.

After selecting **DONE** the **Dashboard** page is displayed in *Survey* mode.



Welcome to Q-Trak™ XP

Survey mode displays real-time readings of sensors selected from the [Sensors](#) page discussed later in [Chapter 5](#). It does not log measurements or statistics.



Selecting **Graph** presents real-time readings in a graphical format while selecting **Information** present data in a numerical format. To view sensors not shown on the page, swipe up and down.


## NOTE

Sensors will only appear in the **Dashboard** page once they have been selected in the [Sensors](#) page discussed later in [Chapter 5](#).

## Navigating the Dashboard Page+

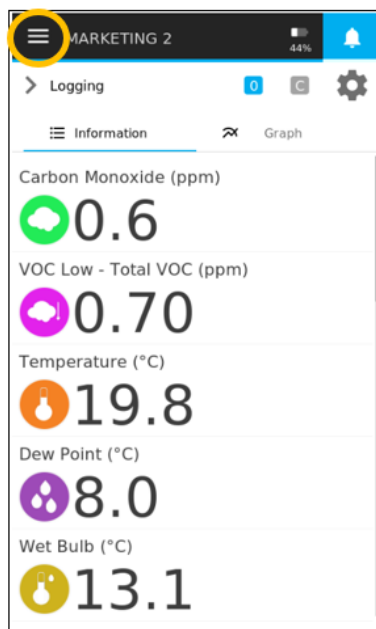
The following **Dashboard** diagram dissects the layout of the

## Main Menu

To display the **Main Menu**, select the  icon in the upper left corner of the header on any page of the display.

The Main Menu has seven options:

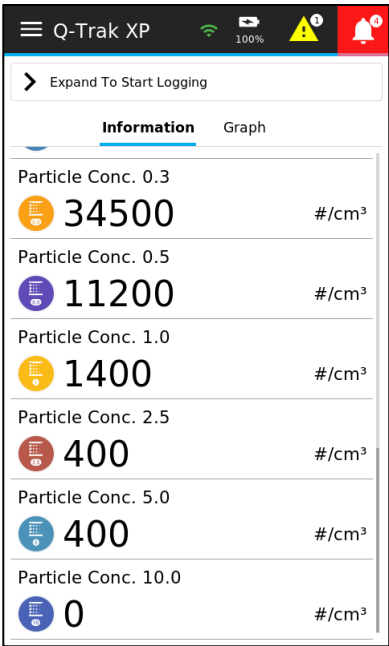
- [Dashboard](#)
- [Settings](#)
- [Manage Data](#)
- [Calibration](#)
- [Workflows](#)
- [Device Information](#)
- Help



## Dashboard

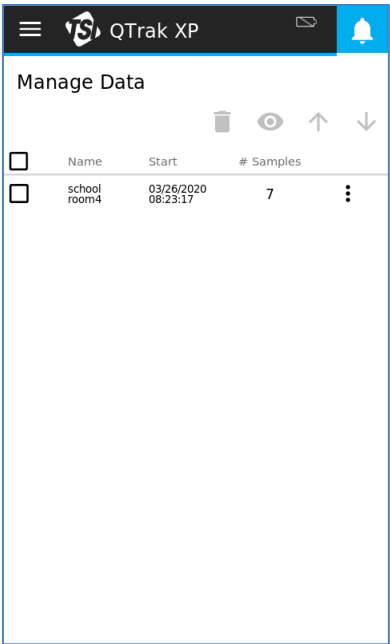
This is the main page for viewing live readings, live graphs and logging data.

Select **Dashboard** from the menu in the header any time to return to the **Dashboard** (Home) page.



## Manage Data

Select **Manage Data** to display logged data stored in the device. Refer to [Chapter 8, Manage Data](#) for detailed information.



## Calibration

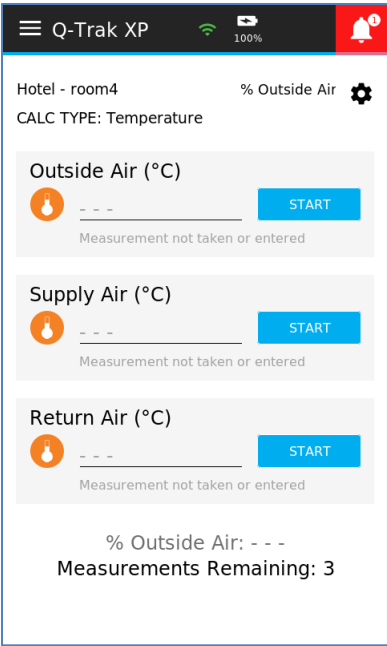
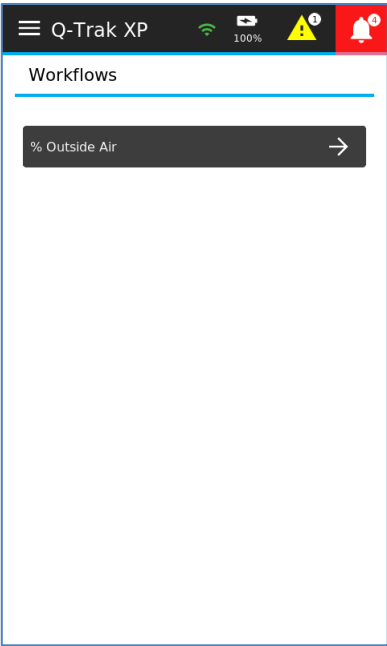
Sensors are calibrated before they are shipped from TSI. If a sensor requires a field calibration, select **Calibration** from the **Main Menu**. The **Calibration** page presents the sensors (except the particle sensor) installed in the device.

**NOTE**

A user calibration cannot be applied

**Workflows**

**Percent of Outside Air:** Select **Workflows** from the **Main Menu**, and then **% Outside Air** to begin performing a % Outside Air Calculation. Refer to [Chapter 9, Workflows](#) for details.



## Device Information

To display general information about the Q-Trak™ XP monitor, select **Device Information** from the **Main Menu**. The **Device Information** page lists the device name, IP address, model number, and many other characteristics of the device as well as information about the installed sensors.

To view sensors not shown on the page, swipe up and down. This information is important for troubleshooting issues related to the operation of the device. Furthermore, the **Device Information** page includes the ability to update the software version for the Q-Trak™ XP monitor from a flash drive or computer.

MARKETING 2 80%

### Device Information

Device Name: MARKETING 2  
Battery: 80%  
Model: 7580  
Serial Number: 75801932001  
IP Address: - - -  
Default Gateway: - - -  
Version: 1.0.266-rc.1277

Latest 1.0.266.1277 UPDATE

### Installed Sensors

**Carbon Monoxide** Sensor Status:

Serial Number: 1401201001

## CHAPTER 5

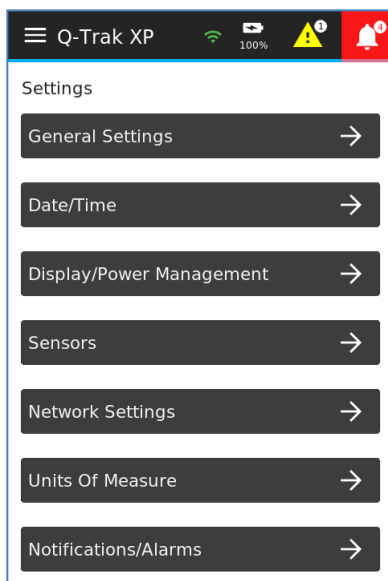
# Settings

Navigate to the **Settings** page by selecting **Settings** from the **Main Menu**.

The **Settings** page options are:

- [General Settings](#)
- [Date/Time](#)
- [Display/Power Management](#)
- [Sensors](#)
- [Network Settings](#)
- [Units of Measure](#)
- [Notifications/Alarms](#)

These options are described in the following subsections.



## General Settings

The **General Settings** page is used to configure the following functions:

- **Device Name** is used to customize the name of the instrument. This feature is helpful when associating data to a specific instrument.

**NOTE:** The device will display up to 14 characters of the device name in the header of the main **Dashboard** page.

- **Language** is used to select the desired language shown on the instrument.
- **Time Constant** is used to adjust the averaging period for the readings shown on the display.
- **Sound** is used to enable or disable the beeper. A beep is emitted at the end of a **Sample Interval** when logging data or when a **Notification/Alarm** occurs.
- **Density Correction** enables or disable the application of density correction to the measurement of CO<sub>2</sub> and VOC.
- **Show Out-of-Range Readings** enables or disables out-of-range readings shown on the device display. An out-of-range reading is a measured value that is either less than a sensor's Minimum Detection Limit or greater than the upper recommended range. For example, a negative gas concentration reading is considered an out-of-range reading. It is recommended that this setting is **Enabled** when performing a Bump Test.

## NOTE

Time Constant is the display averaging period. The display will update every second; however, the displayed reading will be the average over the time constant period. For example, if the time constant is 5 seconds, the display will update every second, but the displayed reading will be the average of the last 5 seconds.

## Date/Time

The **Date/Time** page is used to set the current date, time, and **Time Zone**. This information is critical for logging data and creating log schedules.

The screenshot shows the 'Date/Time' settings page on a Q-Trak XP device. The top status bar displays 'Q-Trak XP', signal strength, 100% battery, and a notification icon. The page title is 'Date/Time'. Below it, the 'DATE/TIME' section shows a calendar icon for the date '05/13/20' and a clock icon for the time '12:57:49 PM'. The 'TIME ZONE' section shows a dropdown menu with 'America/Chicago' selected. At the bottom right, there are two buttons: 'CANCEL' (orange) and 'SAVE' (blue).

## Display/Power Management

The **Display/Power Management** page is used to configure the following functions

- **Display Brightness** adjusts the brightness of the display.
- **Display Sleep** sets the time when the instrument enters into sleep mode. Sleep mode is a power-saving state that darkens the display. To exit sleep mode touch the display. The selectable sleep time options are 1, 5, and 15 minutes. By

## Sensors

The **Display** section of the **Sensors** page is used to configure what sensors are displayed on the **Dashboard** page, and the order they are displayed. To view sensors not shown on the page, swipe up and down. The list of sensors includes the following information:

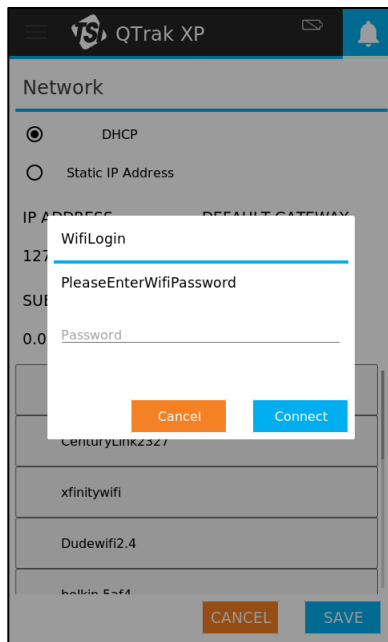
- A sensor icon and name.
- A toggle button to enable or disable the **Visibility** of the sensor on the **Dashboard** page.
- Up and down arrow buttons  $\uparrow$   $\downarrow$  to set the order of the sensors on the **Dashboard** page.

Sensors				
Display Configuration				
Select up to 10 sensors				
Sensor	Serial Number	Visibility	Display	
CO <sub>2</sub>	13991941003	<input checked="" type="checkbox"/>	$\uparrow$	$\down$

The **VOC Configuration** section of the **Sensors** page is used to select a specific Volatile Organic Compound (VOC). This is done by selecting an already pre-defined VOC in the drop-down list or by selecting **Custom** and entering a **Response Factor** and **Molecular Weight**.

- The **Response Factor** and **Molecular Weight** are used to calculate the actual concentration of a specific VOC.

4. Enter the network password in the **Network Password** field.
5. Select the **CONNECT** button to connect the Q-Trak™ XP monitor to the network.
6. Once connected the Connection Status, IP Address, Subnet Mask, Connection Type, Default Gateway, and MAC Address will populate.
7. Select the **Done** button to exit the **Network Settings** page.



## NOTE

The units of measure for all PM mass concentration measurements (PM 1, PM 2.5, and PM 10) are set by the **PM** drop-down list. Similarly, the units of measure of all particle concentration measurements (PC 0.3, PC 0.5, PC 1.0, PC 2.5, PC 5.0, PC 10.0) are set by the **Particle Conc.** Drop-down list.

## CHAPTER 6

# Calibration

### Gas Sensors

TSI® recommends testing the accuracy of gas sensor measurements each time the instrument is used. This is a common practice within the gas measurement community which includes IAQ consultants and industrial hygienists. Due to the nature of the sensors along with other environmental factors such as altitude, temperature, and relative humidity, the zero value and sensor sensitivity can shift over time requiring you to perform a field calibration.

## NOTE

For best results, power on the instrument for 10 minutes before verifying gas sensor performance. This allows the instrument and sensors to thermally stabilize and reduces the amount of measurement drift during verification or calibration.

## NOTE

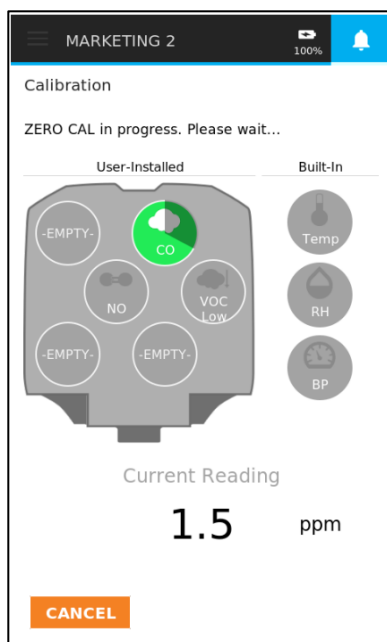


**Step 2 – Place the calibration cap onto the gas sensor you want to calibrate**



## Step 4 - Perform ZERO Capture

1. Connect the ZERO gas regulator to the calibration cap and start the flow of ZERO gas. Wait for the measurement to stabilize.
2. Once the ZERO concentration looks stable, select **Next** to perform a ZERO concentration capture. An illuminated dial will appear on the sensor icon showing the time remaining.





## Step 6 – Save or Discard Calibration


### A CALIBRATION ADJUSTMENT

% is displayed after the SPAN capture that informs you how much the sensor's calibration slope has changed from the factory calibration slope.

1. Select **Save** to accept the calibration.
2. Select <

## Gas Calibration Unsuccessful

If a sensor has drifted beyond the TSI® recommended calibration adjustment specification, a  is displayed by the sensor icon and a warning notice is sent to the Notice list  in the heading bar of the instrument. TSI® recommends replacing the sensor. However, the sensor *is*

The **Reference Value** is the current reading of the sensor. This reading can be changed by selecting on the **Reference Value** text field and entering the desired value and select <  >. Select **Next** then **Save** and the new value is displayed as the **Reference Value**.

The **Total Offset** is the adjustment from the original factory calibration for that sensor. This lets you track the overall drift of the sensor.

## Reset Sensors to Default Calibration

To reset the sensors to their factory defaults,

1. Return to the **Calibration** page and select **Reset to Factory Calibration** at the bottom of the page.
2. Select the sensor(s) to be reset.
3. When the selected sensor(s) are highlighted, select **RESET**.
- 4.

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# Logging Data

From the **Main Menu** select **Dashboard** then select **> Logging** at the top of the page. This leads to the **Dashboard** page with the **Start** button as shown below.


From

# Logging Data



To begin logging data, select **START**.

When logging is initiated, the **Dashboard** page displays second by second measurement readings next to the sensor icons while the **Avg** value is the average of all readings in the log file.

## Logging Profiles

Selecting the  from the **Dashboard** page leads to the **Logging Profile** page where you define and select a logging profile. A logging profile is composed of a **Locations** and **Settings** such as **Logging Mode**. If **Scheduled Save Logging Mode** (see figure) is selected then a schedule must be defined.


To create a new location:

1. Select  to create a new location.
2. Enter a **Building Name**.
3. Enter **Area/Room**.
4. Select  and select **Done** to add a location.
5. Select **Save** to save the location.






To create a new logging schedule:

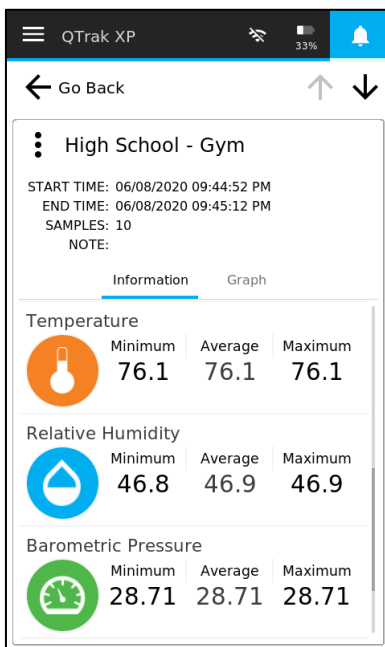
1. Select  to create a logging schedule.
2. Enter a schedule name.
3. If this is a recurring logging profile, select **Recurring** and select the days of the week to log data.
4. Enter start times and end times as desired.
5. If an additional time segment is desired, select **Add New Segment** and enter a start time and end time.
6. Repeat step

*(This page intentionally left blank)*




## View Log Files

To view a log file select the checkbox then select the  icon. To view all the data in a log file swipe up and down and to view data over time select **Graph**. If more than one log file is selected for viewing, select the up and down arrows to view the other log files.





# Edit Log File Names

When viewing a log file, select the  icon and then select **Edit**. Enter a new **Log File Name** and add a comment if desired.

# Scrolling Through Data List









## TrakPro™ Ultra Software

Post-test analysis and report generation is performed using the TrakPro™ Ultra software application.

To install TrakPro™ Ultra Software:

1. Using

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*(This page intentionally left blank)*











Message	Definition
<SensorType> sensor calibration out of range. Please refer to the user manual.	Sensor has drifted beyond the TSI® recommended calibration adjustment specification.
Entered value is out of range. Please refer to the user manual for recommended ranges.	



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