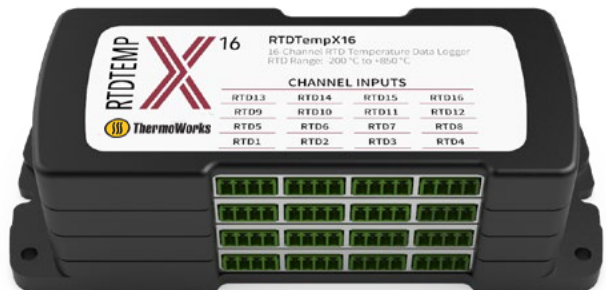
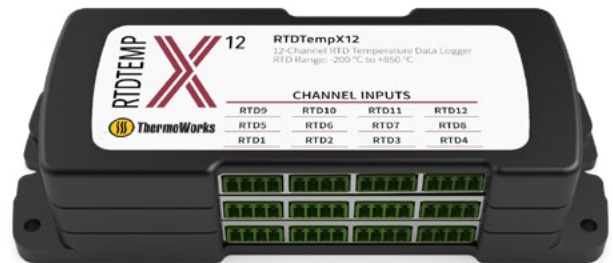
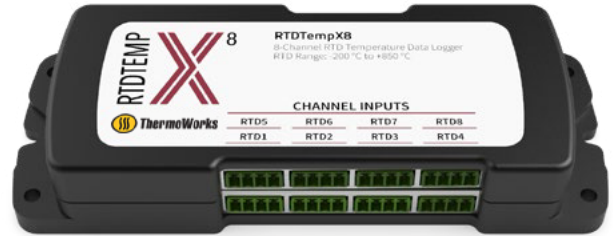
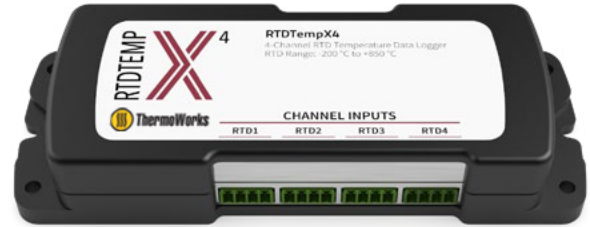


X SERIES

RTDTempX Series

4, 8, 12 and 16-Channel
RTD Based Temperature
Data Logger

PRODUCT USER GUIDE



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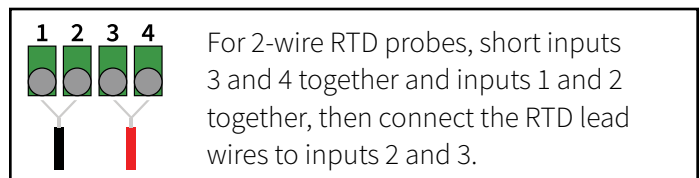
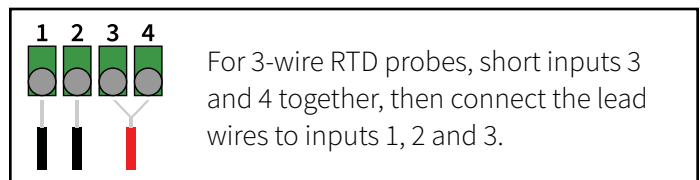
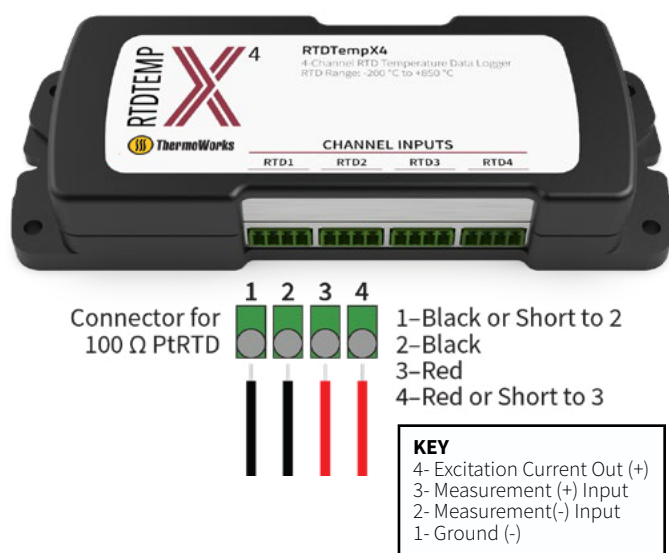
Product Overview

The new RTDTempX Series consists of 4, 8, 12 and 16-channel RTD based temperature data logger with a reading rate of up to 4 Hz. Improvements include the elimination of an interface cable (uses standard USB-A to Micro USB), increased memory for more readings and increased download speed. To maximize memory capacity, users can enable or disable channels. For easy identification, each channel can be named with up to a ten digit title.

The RTDTempX Series is ideal for a variety of applications, whether it is remote temperature monitoring, or multiple points in a central location. Data from all channels is simultaneously logged. After the monitoring cycle is complete, data can be downloaded for analysis. The RTDTempX Series comes with a wall mounted universal power adapter. See data sheet for full specifications.

Wiring Options

For 4-wire RTD probes, connect the four lead wires to your RTD logger as shown in the figure below.



Warning: Note the polarity instructions. Do not attach wires to the wrong terminals. 100 Ω , 2 or 4 wire RTD probes are recommended for the most accurate performance. Most 100 Ω , 3 wire RTD probes will work, but ThermoWorks cannot guarantee the accuracy. To determine whether or not the 3-wire RTD probe will work, the resistance between the two same colored wires should be less than 1 Ω . (Note: Please contact the manufacturer of the RTD probe for questions on the resistance.)

Installation Guide

Installing the Software

The Software can be downloaded from the **ThermoWorks** website at thermoworks.com. Follow the instructions provided in the Installation Wizard. Compatible with Standard Software version 4.2.19.0 or later and Secure Software version 4.2.18.0 or later.

PRODUCT USER GUIDE

Device Operation

Connecting and Starting the Data Logger

1. Once the software is installed and running, plug the supplied USB A to Micro USB cable into the data logger.
2. Connect the USB A end of the cable into an open USB port on the computer.
3. The device will appear in the Connected Devices list. Highlight the desired data logger.
4. For most applications, select **Custom Start** from the menu bar and choose the desired start method, reading rate and other parameters appropriate for the data logging application and click **Start**.
 - **Quick Start** applies the most recent custom start options
 - **Batch Start** is used for managing multiple loggers at once
 - **Real Time Start** stores the dataset as it records while connected to the logger
5. The status of the device will change to **Running**, **Waiting to Start** or **Waiting to Manual Start**, depending upon your start method.
6. Disconnect the data logger from the USB cable and place it in the environment to measure.

Note: The device will stop recording data when the end of memory is reached or the device is stopped. At this point the device cannot be restarted until it has been re-armed by the computer.

Manual Start

Click the **Custom Start** button on the Device panel, or right-click on the device and hover on the start selection, then chose custom start. Apply the options desired and select **Start**. Once armed through the software, to activate the Manual Start, hold the recessed push button, adjacent to the interface cable plug, down for 10 seconds. Green LED will blink rapidly and then blink every 15 seconds. To see the change in the status, hit **Refresh** within the software.



Manual Start Button

Channel Naming

Up to a 10-character channel name can be programmed into the data logger for each channel. This ability helps to rename a channel in a report to distinguish it from other similarly named channels.

1. In the **Connected Devices** panel, click the device desired.
2. On the **Device** Tab, in the Information Group, click **Properties**. Or, right-click the device and select **Properties** in the context menu.
3. In the Channels panel, find the channel desired, then select **"Use custom name."**
4. This will prompt a space to type in a name.
5. Select **OK**, then there will be a prompt to reset the device, select **Yes**.

Downloading Data from a Data Logger

1. Connect the logger to the supplied USB A to Micro USB cable.
2. Highlight the data logger in the Connected Devices list. Click **Stop** on the menu bar.
3. Once the data logger is stopped, with the logger highlighted, click **Download**. You then can create a report from the saved Dataset.
4. Downloading will offload and save all the recorded data to the PC.

Set Password

To password protect the device so that others cannot start, stop or reset the device:

1. In the **Connected Devices** panel, click the device desired.
2. On the **Device** Tab, in the **Information** Group, click **Properties**. Or, right-click the device and select **Properties** in the context menu.
3. On the **General** Tab, click **Set Password**.
4. Enter and confirm the password in the box that appears, then select **OK**.

PRODUCT USER GUIDE

LED Functionality

	Primary LED (Green): Solid when communicating with computer. Flashes every 15 seconds when logging. Flashes every 5 seconds when in delay start.
	Secondary LED (Red): Flashes every 5 seconds when battery is low. Flashes every 5 seconds when memory is low.
	Channel LED (Blue): Flashes every 2 seconds when reading rate is 2 seconds or faster. Flashes same as reading rate when reading rate is slower than 2 seconds.

Device Maintenance

Battery Replacement

Materials: 3/32 inch HEX Driver (Allen Key) and a Replacement Battery (U9VL-J)

1. Remove the cover from the device by unscrewing the two screws.
2. Remove the battery from its compartment and unsnap it from the connector.
3. Snap the new battery into the terminals and verify it is secure.
4. Replace the cover taking care not to pinch the wires. Screw the enclosure back together securely.

Note: Be sure not to over tighten the screws or strip the threads.

Recalibration

Recalibration is recommended annually. To send devices back for calibration, visit thermoworks.com.



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