

SciTemp140X2 Series

High Temperature Dual Probe Data Logger Series

PRODUCT USER GUIDE



1295 Morningside Avenue, Unit 16-18
Scarborough, ON M1B 4Z4 Canada
Phone: 416-261-4865 Fax: 416-261-7879
www.scigene.com

Product Overview

The SciTemp140X2 Series of dual probe high temperature data loggers are comprised of a stainless steel data logger body and feature either two remote temperature probes or one ambient and one remote temperature probe combination. This data logger series offers extreme flexibility for high temperature monitoring applications.

The dual probes of the SciTemp140X2 Series allow for simultaneous temperature monitoring and are ideal for applications such as oven mapping, surface temperature monitoring, autoclave validation, food processing, sterilization processes and much more.

The SciTemp140X2-TD data logger models feature a 2 inch rigid, fast response, transitional diameter probe to measure ambient temperature, combined with a second stainless steel bendable or flexible RTD probe option.

The SciTemp140X2-FP data logger models feature a 6 inch, 12 inch, 36 inch or 72 inch, lightweight flexible RTD probe with stainless steel tip, combined with a second stainless steel bendable probe or a second flexible RTD probe.

Water Resistance

The SciTemp140X2 Series data loggers are rated IP68 and are fully submersible. They can be placed in environments up to 230 ft (70 m) of water.

Bend Radius

The bendable RTD probe on the SciTemp140X2 Series data loggers can be bent to a 0.25 inch bend radius. The probe should not be bent within 1 inch of either weld joint.

Temperature Channels

All SciTemp140X2 Series data loggers feature two temperature channels. The channel number for each probe is identified on the top of the logger as shown to the right.



Rigid Transitional Diameter Probe (TD)



Flexible RTD Probe (FP)



Stainless Steel Bendable RTD Probe (PT)



Installation Guide

Installing the Software

The Software can be downloaded from the Scigiene website at www.Scigiene.com. Follow the instructions provided in the Installation Wizard.

Installing the Docking Station

SD900319-00 or SD900325-00 (sold separately)

— Follow the instructions provided in the Installation Wizard to install the USB Interface Drivers. Drivers can also be downloaded from the Scigiene website at Scigiene.com.

Device Operation

Connecting and Starting the Data Logger

1. Once the software is installed and running, plug the interface cable into the docking station.
2. Connect the USB end of the interface cable into an open USB port on the computer.
3. Place the data logger into the docking station.
4. The data logger will automatically appear under **Connected Devices** within the software.
5. 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.*)
6. The status of the device will change to **Running** or **Waiting to Start**, depending upon your start method.
7. Disconnect the data logger from the interface 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.

Downloading Data from a Data Logger

1. Place the logger into the docking station.
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**.
4. Downloading will offload and save all the recorded data to the PC.

Trigger Settings

The device can be programmed to only record based off user configured trigger settings.

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. Select **Trigger** in the Properties window.
4. Trigger formats are available in **Window** or **Two Point Mode**. Window mode allows a high and/or low trigger set point, and a trigger sample count or “window” of time recorded when set points are exceeded to be defined. Two point allows for different Start and Stop setpoints to be defined for both the high and low triggers.

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**.

Device Maintenance

O-Rings

O-ring maintenance is a key factor when properly caring for the SciTemp140X2 Series data loggers. The O-rings ensure a tight seal and prevent liquid from entering the inside of the device.

Recalibration

SciGene recommends annual recalibration. To send devices back for calibration, contact SciGene.

Battery Replacement

Materials: SD900097-00

1. Unscrew the bottom of the logger and remove the battery.
2. Place the new battery into the logger. Note the polarity of the battery. It is important to insert the battery with positive polarity pointing upward towards the probe. Failure to do so could result in product inoperability or potential explosion if exposed to high temperatures.
3. Screw the cover back onto the logger.

Note: This product is rated for use up to 140 °C (284 °F). Please heed the battery warning. The product will explode if exposed to temperatures above 140 °C (284 °F).

Product Support & Troubleshooting



- Contact us by phone (416) 261-4865 or support@scigene.com.

SciTemp Software Support



- Refer to the built-in help section of the SciTemp Software.
- Refer to the SciTemp Software Manual
- Contact us by phone (416) 261-4865 or support@scigene.com.

Ordering Information

Part #	Description
SD902335-00	SciTemp140X2-FP-6 - High Temperature Dual Probe Data Logger with two 6" Flexible RTD Probes with Steel Tip
SD902334-00	SciTemp140X2-FP-6-FP-12 - High Temperature Dual Probe Data Logger with one 6" Flexible RTD Probe with Steel Tip and one 12" Flexible RTD Probe with Steel Tip
SD902328-00	SciTemp140X2-FP-6-FP-36 - High Temperature Dual Probe Data Logger with one 6" Flexible RTD Probe with Steel Tip and one 36" Flexible RTD Probe with Steel Tip
SD902331-00	SciTemp140X2-FP-12 - High Temperature Dual Probe Data Logger with two 12" Flexible RTD Probes with Steel Tip
SD902332-00	SciTemp140X2-FP-12-PT-1 - High Temperature Dual Probe Data Logger with one 12" Flexible RTD Probe with Steel Tip and one 24" Bendable RTD Probe with a 1" probe sheath
SD902333-00	SciTemp140X2-FP-24 - High Temperature Dual Probe Data Logger with two 24" Flexible RTD Probes with Steel Tip
SD900265-00	SciTemp140X2-FP-36 - High Temperature Dual Probe Data Logger with two 36" Flexible RTD Probes
SD902092-00	SciTemp140X2-FP-36-KR - High Temperature Dual Probe Data Logger with two 36" Flexible RTD Probes and Key Ring End Cap
SD900267-00	SciTemp140X2-FP-36-PT-1 - High Temperature Dual Probe Data Logger with one 36" Flexible RTD Probe and one 24" Bendable RTD Probe with a 1" probe sheath
SD900271-00	SciTemp140X2-FP-36-PT-5 - High Temperature Dual Probe Data Logger with one 36" Flexible RTD Probe and one 24" Bendable RTD Probe with a 5" probe sheath
SD900271-00	SciTemp140X2-FP-72 - High Temperature Dual Probe Data Logger with two 72" Flexible RTD Probes
SD900273-00	SciTemp140X2-FP-72-PT-1 - High Temperature Dual Probe Data Logger with one 72" Flexible RTD Probe and one 24" Bendable RTD Probe with a 1" probe sheath
SD9002753-00	SciTemp140X2-FP-72-PT-5 - High Temperature Dual Probe Data Logger with one 72" Flexible RTD Probe and one 24" Bendable RTD Probe with a 5" probe sheath
SD900281-00	SciTemp140X2-TD-PT-1 - High Temperature Dual Probe Data Logger with one 2" TD Probe and one 24" Bendable RTD Probe with a 1" probe sheath
SD900283-00	SciTemp140X2-TD-PT-5 - High Temperature Dual Probe Data Logger with one 2" TD Probe and one 24" Bendable RTD Probe with a 5" probe sheath
SD900319-00	Docking station with USB cable
SD900325-00	6 Port, Multiplexer docking station with USB cable
SD900097-00	Replacement battery for the SciTemp140-FR



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