PRODUCT MANUAL

System

QuickFire

Quick Deploy Fire Weather Monitoring System



11/2026
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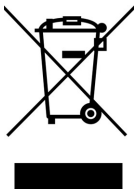
Please read first

About this manual

Please note that this manual was produced by Campbell Scientific Inc. primarily for the North American market. Some spellings, weights and measures may reflect this. In addition, while most of the information in the manual is correct for all countries, certain information is specific to the North American market and so may not be applicable to Europe, Middle East, and Africa (EMEA) or Asia Pacific (APAC) users. Differences include the U.S. standard external power supply details where some information (for example the AC transformer input voltage) will not be applicable for EMEA or APAC use. Please note, however, *that when a power supply adapter is ordered from Campbell Scientific it will be suitable for use in your country*.

Reference to some radio transmitters, digital cell phones and aerials (antennas) may also not be applicable according to your locality. Some brackets, shields and enclosure options, including wiring, are not sold as standard items in the EMEA or APAC market; in some cases alternatives are offered.

Recycling information for countries subject to WEEE regulations 2012/19/EU



At the end of this product's life it should not be put in commercial or domestic refuse but sent for recycling. Any batteries contained within the product or used during the product's life should be removed from the product and sent to an appropriate recycling facility, per The Waste Electrical and Electronic Equipment (WEEE) Regulations 2012/19/EU. Campbell Scientific can advise on the recycling of the equipment and in some cases arrange collection and the correct disposal of it, although charges may apply for some items or territories. For further support, please contact Campbell Scientific, or your local agent.

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1. Introduction

> NOTE:
> An online version of this manual is available at help.campbellsci.com/quick-fire.

This document outlines the basic steps required to set up the QuickFire Remote Automated Fire Weather System. More detailed installation information is provided in the Quick-Setup Tripod (QST6) and ClimaVue 50 G2 manuals. For more information, visit campbellsci.ca/quick-fire.

> NOTE:
> QuickFire is currently available for purchase and use in Canada only. For inquiries outside of Canada, please contact our sales team to register your interest and receive updates if availability expands in the future. Email: sales@campbellsci.ca.

2. Precautions

- READ AND UNDERSTAND the Safety section at the back of this manual.
- Handle wiring with care and follow installation procedures.
- Read all instructions thoroughly before beginning work.
- Ensure stable ground for tripod setup.
- Maintain a safe distance from overhead utility lines as per local recommendations.

3. Initial inspection

Upon receipt of the QuickFire system, inspect the packaging and contents for damage or missing parts. Any shortages or damages must be reported to Campbell Scientific (Canada) within 7 business days after receipt of goods.

Contact Information

Location:	Edmonton, AB Canada
Phone:	780.454.2505
Email:	sales@campbellsci.ca
Website:	www.campbellsci.ca

4. Overview



The QuickFire Remote Automated Fire Weather System is engineered for rapid deployment. It is ideal for providing hyperlocal data on-site at prescribed burns and active fires, densifying weather coverage in high-risk regions, or supporting any temporary installation for fire operations where time is critical.

The system is built for fire management teams who need fast, straightforward setup in the field. By using the all-in-one ClimaVue™ 50 G2 sensor, crews only need to mount a single unit during deployment. The ClimaVue 50 G2 measures ambient air temperature, relative humidity, wind speed, wind direction, barometric pressure, solar radiation, rainfall, and lightning strikes, all in one device.

QuickFire uses the lightweight, adjustable aluminum QST6 tripod, which is designed for rapid setup and easy transport to temporary installations. Its compact, portable design allows it to be carried by foot or transported by ATV or helicopter.

Based on the Canadian Forest Fire Danger Rating System (CFFDRS), QuickFire is unique in that it comes pre-programmed to measure and store raw data while also calculating and outputting

key fire weather indicators, including Fine Fuel Moisture Code (FFMC), Duff Moisture Code (DMC), Drought Code (DC), Initial Spread Index (ISI), Buildup Index (BUI), Fire Weather Index (FWI), and Fire Danger Code (FDC). No post-processing of the data is required.

QuickFire was developed by combining portability, ease of deployment, and intuitive operation with the research-grade quality expected from Campbell Scientific equipment. The result is a lightweight, rugged, and extremely portable weather station that can be deployed quickly in demanding fire environments while delivering dependable, site-specific data to inform critical decisions.

5. Specifications

These specifications pertain to the QuickFire Remote Automated Fire Weather System. See the CR310 Specifications Sheet for a full list of data logger specifications.

5.1 System specifications

Processor: CR310, CR310-Wifi, or CR310-CELL205

Program Scan Rate: 10 seconds

Data Output Rate: User-selectable

5.2 Physical specifications

QuickFire Case

Height: 50 cm

Width: 32 cm

Depth: 16.5 cm

Weight: 11.7 Kg

ClimaVue 50 Case

Height: 40 cm

Width: 32 cm

Depth: 16.5 cm

Weight: 4.7 Kg

Tripod (Inside Carrying Tote)

Height: 74 cm

Width: 38 cm

Depth: 23 cm

Weight: 9.0 Kg

Satellite Expansion Module Case (Optional)

Height: 50 cm

Width: 32 cm

Depth: 16.5 cm

Weight: 11.7 Kg

6. Installation

6.1 Siting

Install the QuickFire system in an open area, away from obstructions like trees or buildings. Ideally, keep a horizontal distance of at least 10 times the obstruction's height. Choose a location with a clear view of the sun whenever possible.

6.2 Assemble the tripod and mast

1. Ensure the tripod is positioned on level ground. Orient the legs such that the case hooks shown on mast A face north.

   See Determining True North and sensor orientation in the *ClimaVue 50 G2* manual for detailed information on determining true north using a compass and the magnetic declination for the site. The NOAA Magnetic Field Calculator is also a useful tool for determining magnetic declination.

2. Secure the tripod in place with the T-handle screw anchors through the hole in the top of each tripod foot.

   Refer to the QST6 Assembly Guide for complete setup details.





3. Attach the lower mast extension (A-B) to the tripod base, ensuring that the "A" labels are aligned.



4. If you will use the optional guy kit, follow the steps below for installation of the guy collar and carabiners. Installation of the guy wires is covered in Complete guy-wire installation (p. 15).

> **NOTE:**
> The 33834 synthetic guy kit includes the cord and connectors to guy the QST6 tripod. It is designed for quick setup and takedown. The guy kit is especially important in windy conditions, on uneven or soft ground, or whenever the tripod supports a tall, heavy, or wind-sensitive load. Properly guying the tripod increases stability, reduces movement and vibration, and helps prevent tipping and equipment damage during operation.

   a. Place the guy collar between masts B and C.



   b. Using the carabiner attached to the double rigging clamp, hook all three carabiners onto the guy kit collar. It is recommended to leave the excess cable coiled up at this point.



   Guy wire installation will continue after all sensors are mounted (see, Complete guy-wire installation (p. 15).

5. Connect the middle and top mast extensions labeled (B–C) and (C) together by aligning the labels marked "C" on each piece.



> NOTE:
> For ease of installation, do not attach mast assemblies B–C and C to the main tripod at this time. It is best to install, level, and orient the ClimaVue™50 G2 first (see Install and orient the ClimaVue™50 G2 sensor [p. 7]).

6.3 Install and orient the ClimaVue™50 G2 sensor



1. Remove the ClimaVue 50 G2 from the carrying case.
2. Remove the solar panel from storage in the back of the QuickFire case, and set the Velcro straps aside, as they will be used later.



3. Loosely mount the ClimaVue 50 G2 to the top of mast C using the V-bolt, washers, and thumb knobs.
4. Orient the ClimaVue 50 G2 so the N points to True North (N on the ClimaVue 50 G2). Since the tripod base was oriented in Assemble the tripod and mast (p. 4), you can install the ClimaVue 50 G2 "N" Symbol opposite the solar panel mounting bracket found on mast C.

   See Determining True North and sensor orientation in the *ClimaVue 50 G2* manual for detailed information on determining true north using a compass and the magnetic declination for the site. The NOAA Magnetic Field Calculator is also a useful tool for determining magnetic declination.
5. Position the ClimaVue 50 G2 North indicator (N) between the thumb knobs. This simplifies installation.
6. Ensure that the ClimaVue 50 G2 is as level as possible before securing to the mast.
7. Secure the ClimaVue 50 G2 to the top of mast C before the mast assembly is screwed onto the base of the tripod. Then tighten securely to prevent movement.

8. Unravel the cable connected to the ClimaVue 50 G2.



9. Attach the top mast assembly to the tripod mast, so the "B" labels align.



10. Use a torpedo level or the bubble level on the bottom of the ClimaVue™ 50 G2 to level the sensor. To adjust the level:
    a. Loosen the leveling hex bolt on the bottom of the sensor using the 8-mm end of the included wrench.
    b. Move the ClimaVue 50 G2 from side to side as needed to level it.
    c. Retighten the leveling bolt.

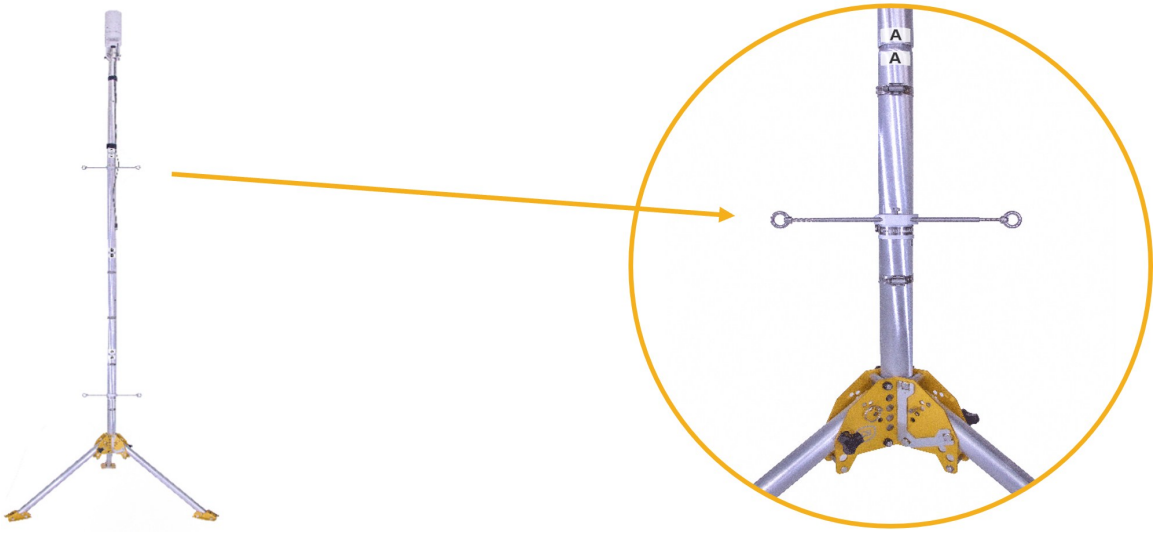
The sensor must be within ±2° of level (0, 0) in both the X and Y directions to accurately measure rainfall and solar radiation. You can confirm the sensor is within ±2° later when you view the station data.



6.4 Install the QuickFire case and solar panel

Two rods and four eyehooks are provided.

1. Loosen the setscrews on the solar panel mount.
2. Slide the rods into the holes on the mounts as shown, centering each rod.
3. Tighten the setscrews.
4. Screw on the eyehooks at the end of each rod.



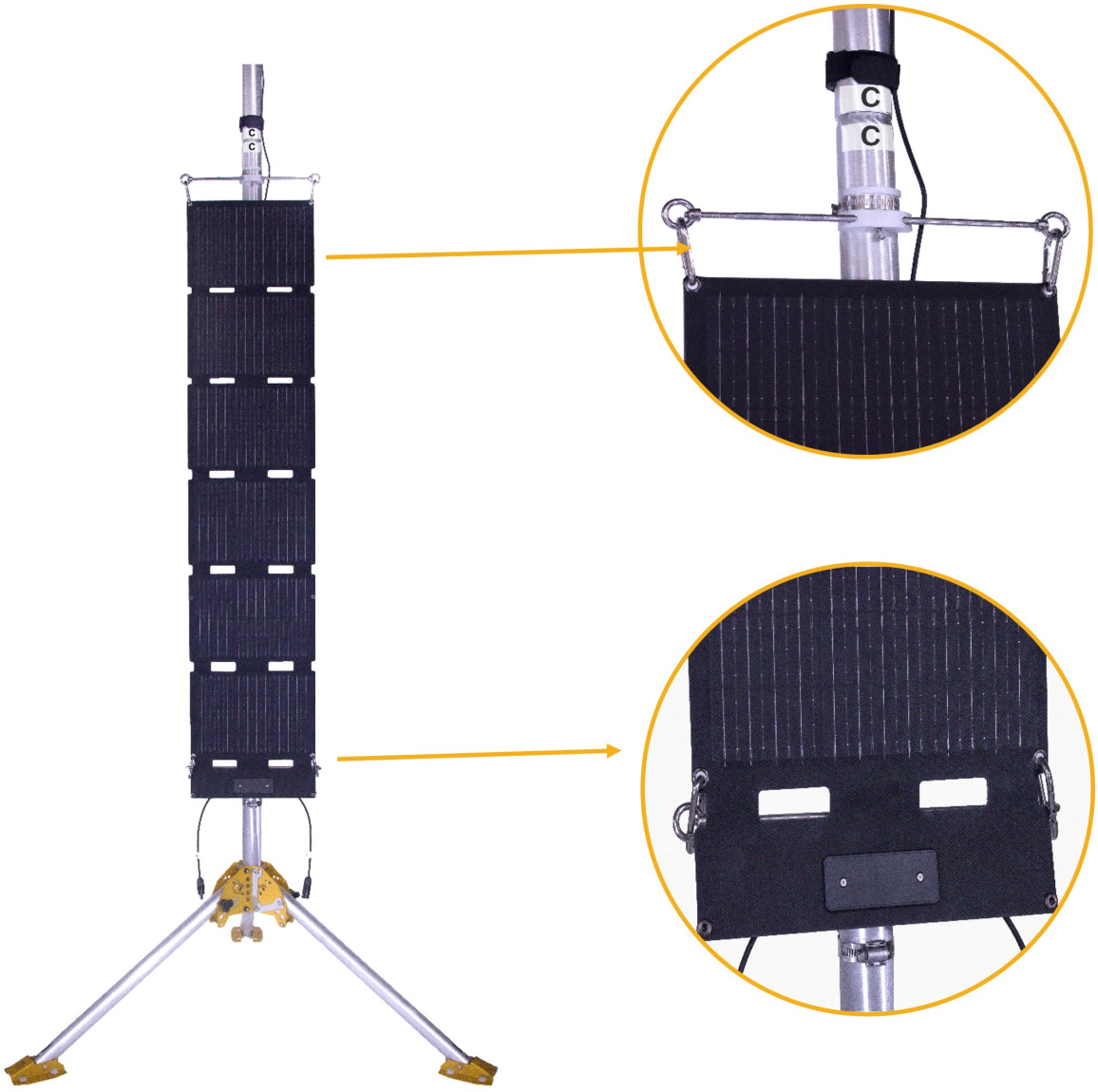
5. Mount the QuickFire case to the lowest mast section using the factory-installed brackets, by carefully slotting the brackets on the back of the case to the mounts. Ensure it is level and secure.







6. Unfold the panel fully and use the carabiners to hook the solar panel to the eyehooks on the top solar panel rod.



7. Attach the bottom of the solar panel to the bottom mount using the remaining carabiners.

> **NOTE:**
> In Assemble the tripod and mast (p. 4), you secured the tripod with the case hooks facing north. Therefore, the solar panel mounting hardware should already be oriented south. In the Northern Hemisphere, solar panels generally receive optimal exposure when facing south.

6.5 Connect cables and secure the battery

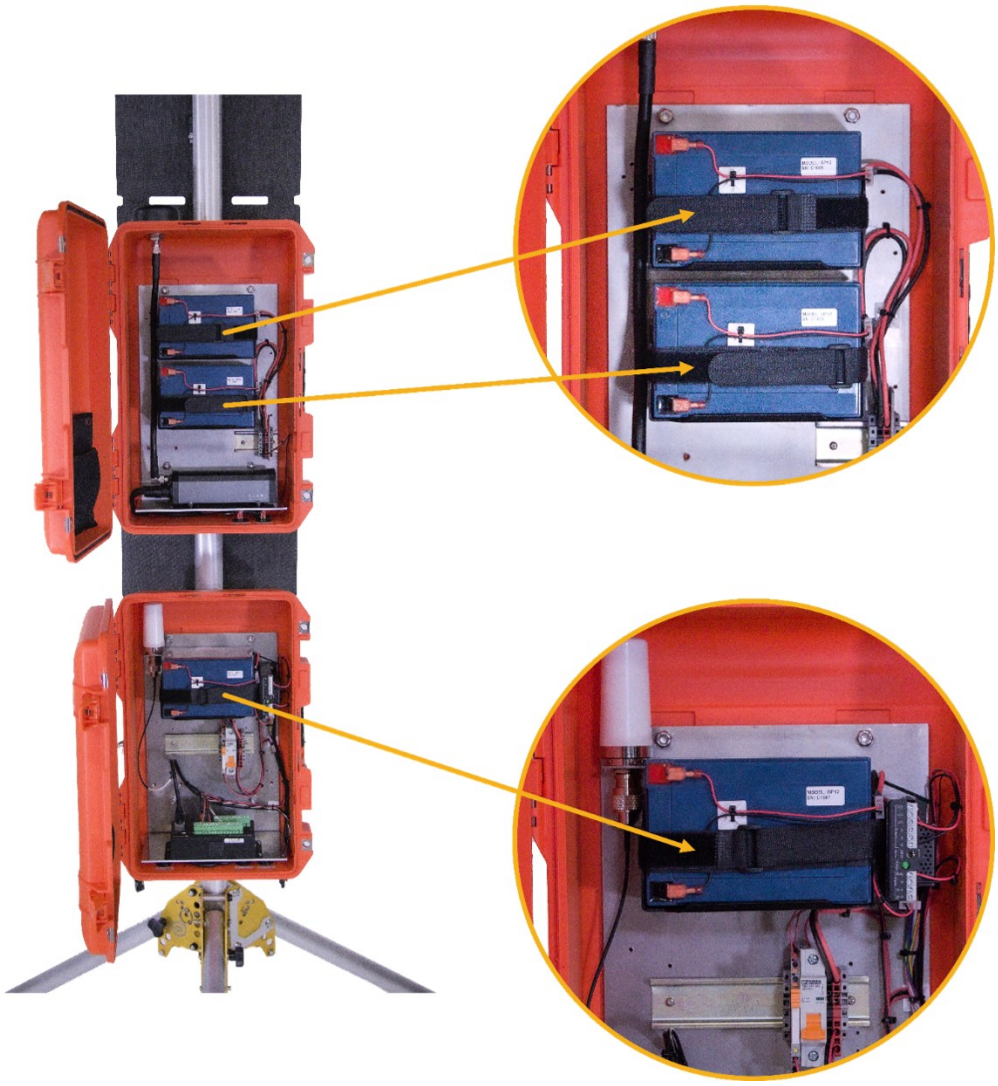
> CAUTION:
> Each station is preprogrammed and prewired within its case. Do not disconnect or alter any internal wiring. Changing any wiring may result in damage to one or more components in the QuickFire system.

1. Mate the ClimaVue 50 G2 extension cable to the existing ClimaVue 50 G2 cable.

   > CAUTION:
   > Hand-tighten the connectors only. Using tools can permanently weld the stainless-steel connectors together. To avoid damaging the internal pins, never twist the connectors. Once loosened, pull the connectors straight apart.

2. Route the cable down the pole, and secure the cable to the tripod using the Velcro straps that were used to hold the solar panel in place.

3. Ensure the battery is properly installed inside the case and is tightly secured into the bracket using the provided Velcro straps.



4. Attach the positive wire from the panel to the red wire connector on the solar panel cable.
5. Attach the negative wire from the solar panel to the black wire connector on the solar panel cable.
6. Plug the solar panel quick connector into the socket labeled ‘SOLAR’ at the bottom of the case.

7. Finally, coil any extra cable and secure it with the provided Velcro straps.



6.6 Install optional equipment

This section covers completing installation of the optional guy kit and installation and configuration of the satellite expansion module.

6.6.1 Complete guy-wire installation

This section covers installation of the guy wires. The installation of the guy collar is covered in Assemble the tripod and mast (p. 4).

1. Unravel the guy wires that were previously hooked onto the guy collar.
2. Hook the second carabiner to the tripod feet as shown. Hook one carabiner per foot.



3. Hook the cord tightener to the loop in the guy wire cord.



4. Tighten the guy wire cord by pulling on the loose end and coil up the excess once it is tightened.



5. Repeat for the remaining two guy wires.

6.6.2 Install the satellite expansion module

If you have the Satellite Expansion Module, mount this secondary case on the upper set of brackets, above the QuickFire case by carefully slotting the brackets on the back of the case to the mounts. Ensure it is level and secure.

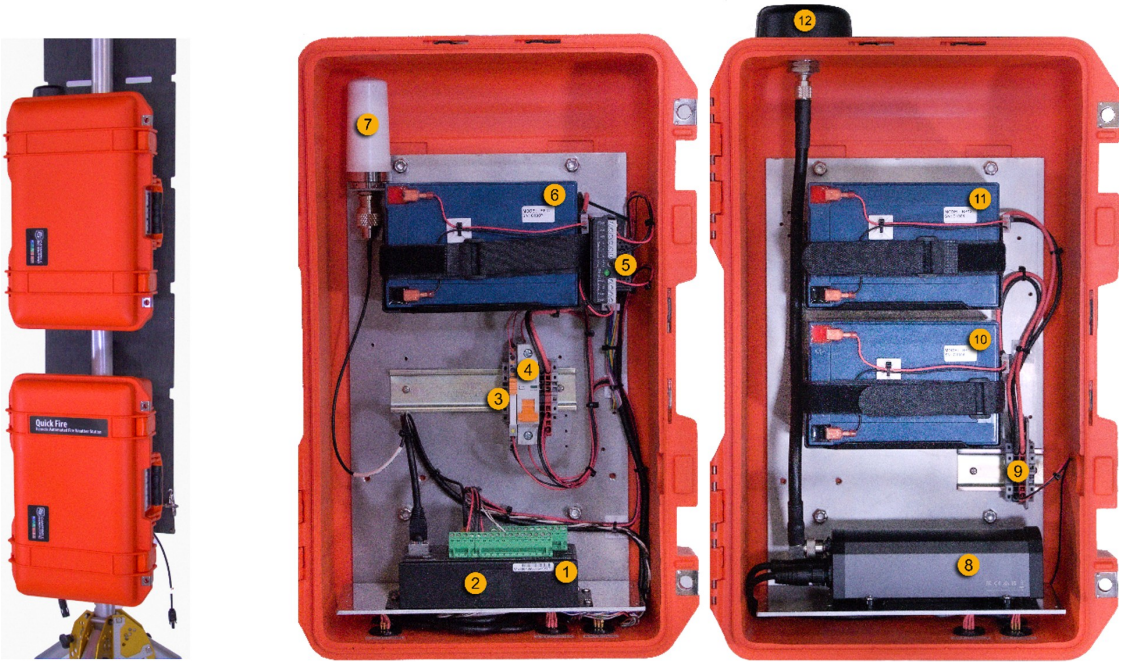


Figure 6-1. QuickFire with optional expansion module case

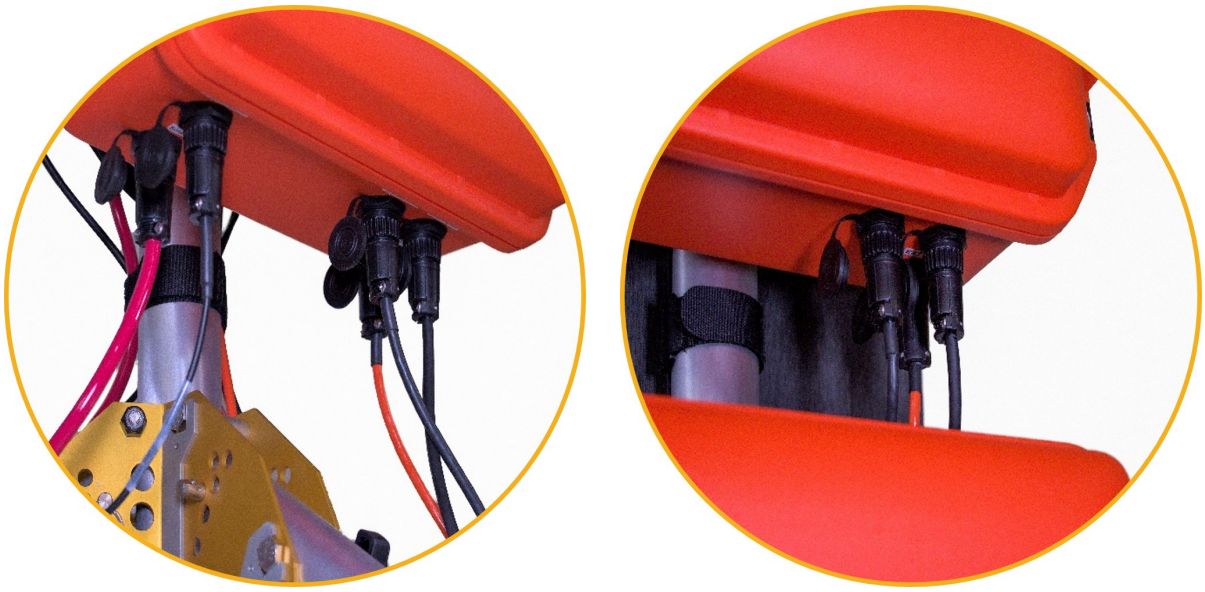
Table 6-1: Number legend for QuickFire with optional expansion module case (p. 17)				
1)	CR310-Cell 205 data logger		7)	Cellular antenna
2)	Sim card slot		8)	Rock remote mini satellite modem
3)	Satellite relay		9)	Battery connection terminals
4)	Battery connection breaker		10)	BP12 – 12 Ahr battery
5)	CH150 regulator		11)	BP12 – 12 Ahr battery
6)	BP12 – 12 Ahr battery		12)	Iridium satellite antenna

Connecting satellite expansion module cables:

Connect the following cables between the QuickFire case and the Satellite Expansion Module:

- Orange power cable from QuickFire case to EXT BAT port on bottom of Satellite Expansion Module case
- Sat Comm extension cable from QuickFire case to Sat Comms port on bottom of Satellite Expansion Module case.
- Sat Power extension cable from QuickFire case to Sat Power port on bottom of Satellite Expansion Module case.

Ensure cables are secured with Velcro straps.



After the cables have been connected, power to the satellite modem is automatically enabled in the programming code of the main QuickFire station.

- A yellow LED will illuminate on the satellite relay (labeled 3 in QuickFire with optional expansion module case [p. 17]).
- Power to the cell modem is automatically disabled.

6.6.3 Configure satellite-only operation

> **NOTE:**
> The SAT_Override needs a connection to the data logger. See Configure and initialize the QuickFire system (p. 20) for the connection procedure.

1. To force satellite-only operation, set the variable:

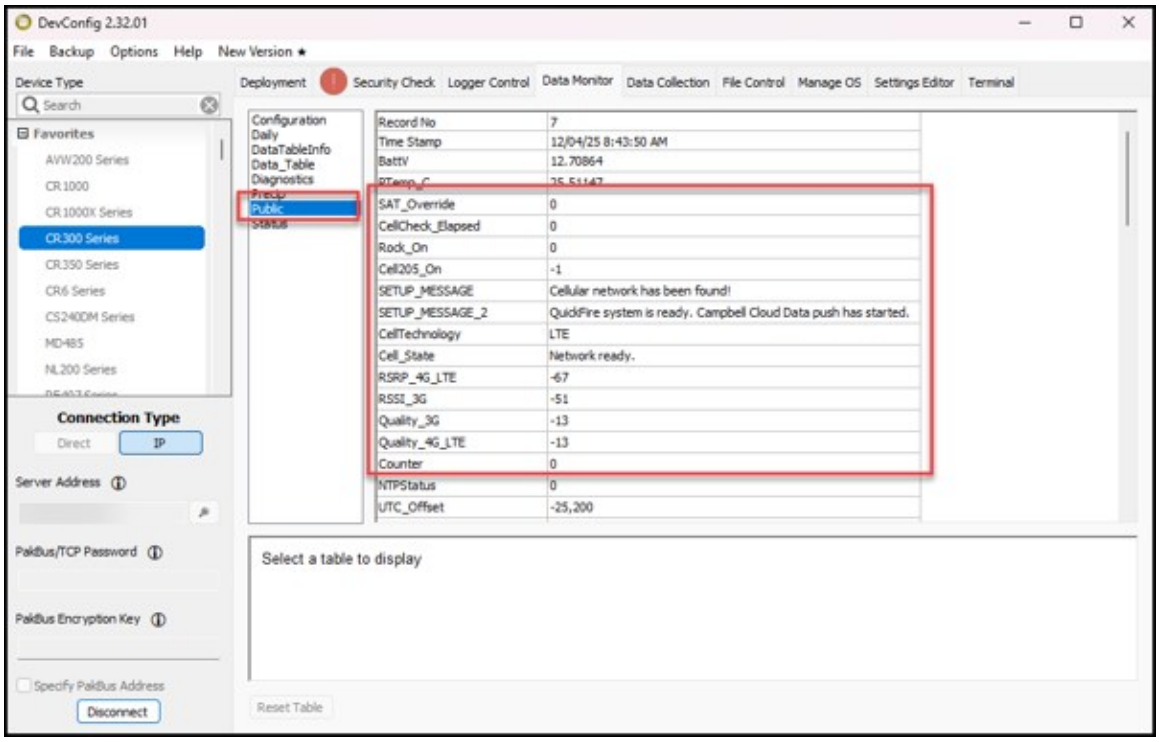
   ```
   SAT_Override = True (-1)
   ```

   This:

   - Disables the cell modem and prevents cellular connection attempts.
   - Enables constant power to the Satellite Expansion Module for permanent satellite deployment.

Expected messages:

```
SETUP_MESSAGE: "User Override - Switching to Satellite"
SETUP_MESSAGE_2: "QuickFire has been configured to use the Satellite Expansion Module”"
```



6.7 Final assembly check

Inspect the entire station. Confirm all components are secure, wiring is complete, and the solar panel is positioned correctly.

Checklist:

- ✓ Solar panel pointing South with a clear sky view
- ✓ ClimaVue 50 G2 securely attached, leveled, and oriented N
- ✓ T-handle screws secured in place
- ✓ Cases secure to the main mast
- ✓ Cables connected securely; loose cables bundled and secured to the structure with Velcro
- ✓ Guy kit installed (optional)
- ✓ Optional Satellite Expansion Module



7. Configure and initialize the QuickFire system

Before you begin:

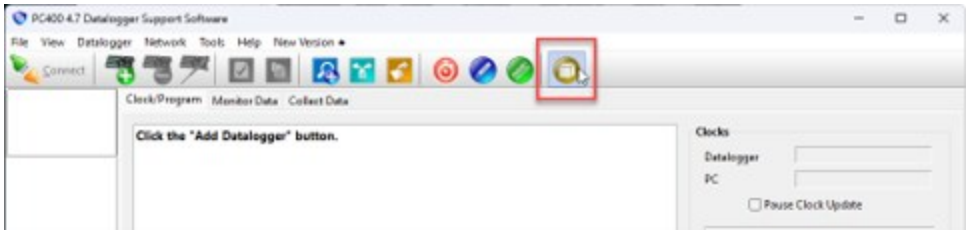
- Ensure *PC400* software or *Device Configuration Utility* is installed on the host computer. See PC400 installation instructions (p. 30).
- Confirm the USB driver for the CR310-Cell205 data logger is installed.

7.1 Set site-specific parameters

Connect the data logger to your computer over USB.

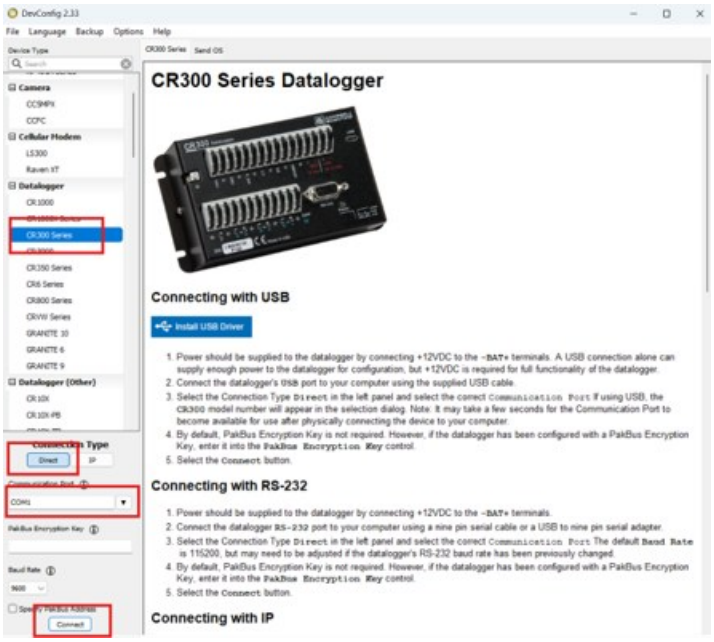
> **NOTE:**
> The USB connection provides sufficient power to configure data logger settings. However, it does not supply power to the cellular modem or the ClimaVue 50 G2 sensor. Power to the modem and sensor are toggled on during system initialization.

Open ***PC400*** and click the ***Device Configuration Utility*** icon . See PC400 installation instructions (p. 30) if this is your first time connecting to the data logger.



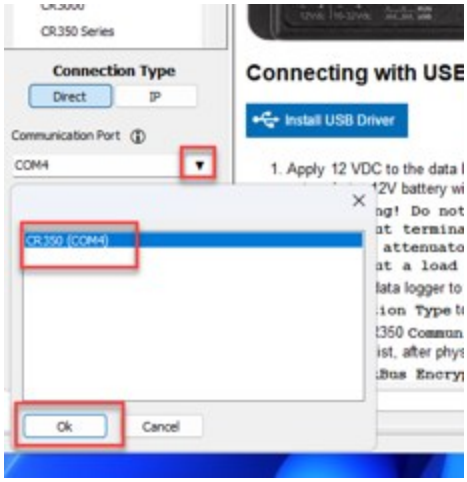
In ***Device Configuration Utility***:

1. Select the **CR300 Series** from the list on the left.



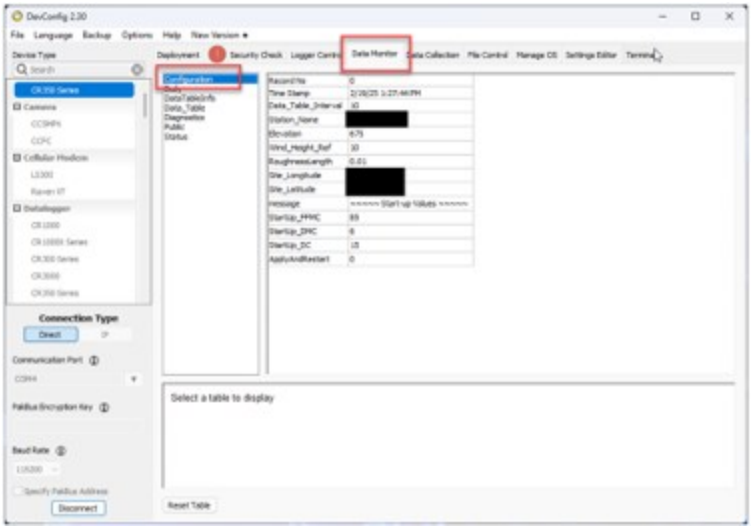
2. Under **Connection Type**, Select **Direct**.

3. Click the drop-down arrow next to **Communication Port**, and select the **COM port** assigned to the data logger.



4. Click **Connect**.

Once connected to the data logger, select the **Data Monitor** tab and select **Configuration** from the list in the left panel.



In the configuration table, double-click a value field until it is highlighted, and then enter the site-specific information listed below:

- **Station_Name:** Enter the appropriate site name.
- **Elevation:** Replace the default value of 675 with the site elevation, in metres.
- **Wind_Ref_Height:** Enter the measured height, in metres, from the ground to the installed sensor height.

- **Site Longitude:** Enter the site longitude using the existing format. Example: -113.5709204
- **Site Latitude:** Enter the site latitude using the existing format. Example: 53.5910656.

Set **ApplyAndRestart** to **-1** to apply the updated settings.

When the settings are applied, the program will recompile. The USB connection will disconnect and then reconnect automatically. The recompile process may take up to 20 seconds.

7.2 Initialize the system

This section explains how to determine whether cellular reception is available on-site and what to do if cellular reception is unavailable.

1. Verify system installation is complete (see Final assembly check [p. 19]).
2. Toggle the power switch to the **ON** position.
    - For basic stations, this is the Phoenix contact breaker
    - For satellite-ready stations, this is the CH150 regulator power switch
3. Confirm 12 VDC is applied to the CR310-Cell205 data logger.

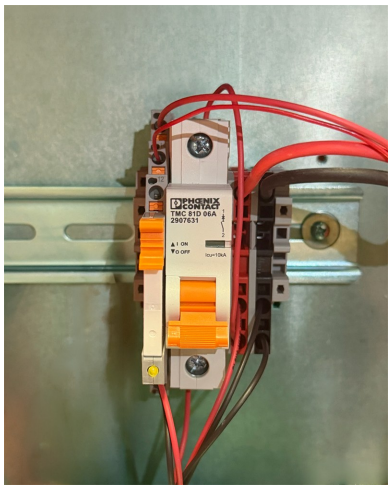


Figure 7-1. Phoenix contact breaker

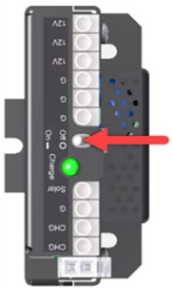


Figure 7-2. CH150 power regulator

The data logger power LED will illuminate and flash once every 15 seconds, indicating that a program is running.

4. Launch the ***Device Configuration Utility*** (either directly or via ***PC400***).
5. Connect a micro-USB cable to the data logger's USB port.
6. Select the appropriate COM port to establish a direct connection.
7. Navigate to the **Data Monitor** tab and select the **Public Table**.
8. Observe SETUP_MESSAGES during system startup phase.
    - The QuickFire will automatically attempt to connect to a cellular network for up to 5 minutes. The variable **CellCheck_Elapsed** indicates how many seconds have elapsed during that five-minute period.
    - Expected messages:

      SETUP_MESSAGE: "QuickFire is searching for cell coverage....."

      SETUP_MESSAGE_2:

7.2.1 Verify cellular connection

1. Upon successful connection, the following messages will be displayed:

   SETUP_MESSAGE: "Cellular network has been found!"

   SETUP_MESSAGE_2: "QuickFire system is ready. Campbell Cloud Data push has started.

2. Take note of the cell technology the modem picked up as well as the signal strength and signal quality values of that technology:

Signal Strength	3G	4G - LTE
Excellent:	-70dBm or less	-90dBm or less
Good:	-70dBm to -85dBm	-90dBm to -105dBm
Fair:	-86dBm to -100dBm	-106dBm to -115dBm
Poor:	>-100dBm	>-115dBm

Figure 7-3. Cellular signal strength

Signal Quality	3G	4G - LTE
Excellent:	0 to -6	>-9
Good:	-7 to -10	-9 to -12
Fair to Poor:	-11 to -20	-13 or less

Figure 7-4. Cellular signal quality

7.2.2 If the station cannot connect to the cellular network

If no cellular network is detected within 5 minutes, the following messages will appear:

- SETUP_MESSAGE: "** NO CELLULAR NETWORK DETECTED - CELL205 Module will power down **"
- SETUP_MESSAGE_2: "Satellite comms is required. Please proceed to install the Satellite Expansion Module."

If no cellular signal is established, you have the following options::

- Relocate the station
- Consider implementing the optional Satellite Expansion Module

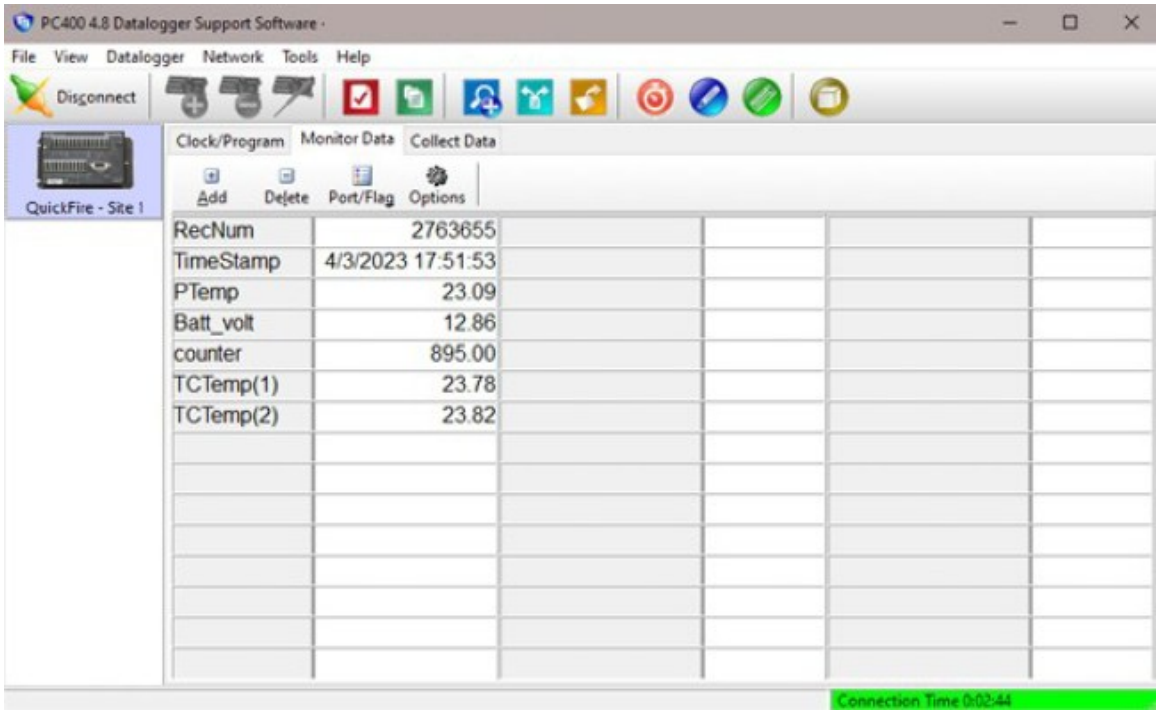
The cell modem will power up and retry every 15 minutes, up to 10 attempts.

After the 10th attempt, the system will permanently default to satellite communications.

Restarting the data logger resets the communications settings to the factory defaults, allowing the system to attempt a cellular network connection again.

8. Viewing live data

To view live data in *PC400*, select the data logger on the left side of the screen, and then click **Connect** in the top-left corner. Navigate to the **Monitor Data** tab. The **Monitor Data** tab displays the current measurement values (i.e., input locations or public variables) and final storage data for the data logger. This window can also be used to monitor or set ports and flags in the data logger. For more information, reference the complete *PC400* manual here: help.campbellsci.com/PC400%20Manual/home.htm.



When you have finished viewing data remotely, click **Disconnect** in the top-left corner before closing the software. After disconnecting, remove the cables from the data logger and the computer.

For troubleshooting support, contact the Campbell Scientific Field Service Technician on site or Campbell Scientific Technical Support.

9. Turn off and disassemble the station

1. Ensure all required data has been successfully collected and saved.
2. Power down the system:
    - For basic stations, this will be the Phoenix contact breaker
    - For satellite-ready stations, this will be the CH150 regulator power switch
3. Remove all external wiring from sensors and between cases.
4. Unfasten all Velcro straps securing the components.
5. Detach the solar panel and fold it for storage.
6. Close all cases securely and detach them from the mast.
7. Reattach components for transport:
    a. Reconnect the four Velcro straps in a row.
    b. Reattach the solar panel to the QuickFire case mounts located on the rear of the enclosure.
8. Disassemble mast sections:
    a. Disconnect the top two mast sections (separating sections B and C).
    b. Remove and store the ClimaVue 50 G2 sensor.
    c. Separate remaining mast sections and store them in the tote bag.
9. Remove anchors and fold up tripod base:
    a. Unscrew T-handle anchors and store them in the tripod tote bag.
    b. Fold up tripod base and store it in the tripod tote bag.

10. QuickFire public variables

Table 10-1: QuickFire public variables

Variable	Access	Description
SAT_Override	User editable	Boolean variable: True (-1) or False (0) Toggling to true will hard reset communications to the satellite.
Rock_On	Read only	Boolean variable: True (-1) or False (0) Indicates whether there is power to the Rock Remote Satellite modem or not.
SETUP_MESSAGE	Read only	String variable. Provides the user with important system initialization information and instruction
RSRP_4G_LTE or RSSI_3G	Read only	String variable. Measured LTE or 3G cellular signal strength (refer to Figure 7-3 [p. 25] for more information)
Quality_4G_LTE or Quality 3G	Read only	String variable. Measured LTE or 3G cellular signal quality (refer to Figure 7-4 [p. 25] for more information)
Counter	Read only	Numeric value from 0 to 10. Measured LTE or 3G cellular signal quality (refer to Figure 7-4 [p. 25] for more information)
CellCheck_Elapsed	Read only	Numeric values from 0-300 (seconds). Indicates the time that has elapsed searching for a cellular network.
Cell205_On	Read only	Boolean variable: True (-1) or False (0) Indicates whether there is power to the Cell205 cell modem or not.

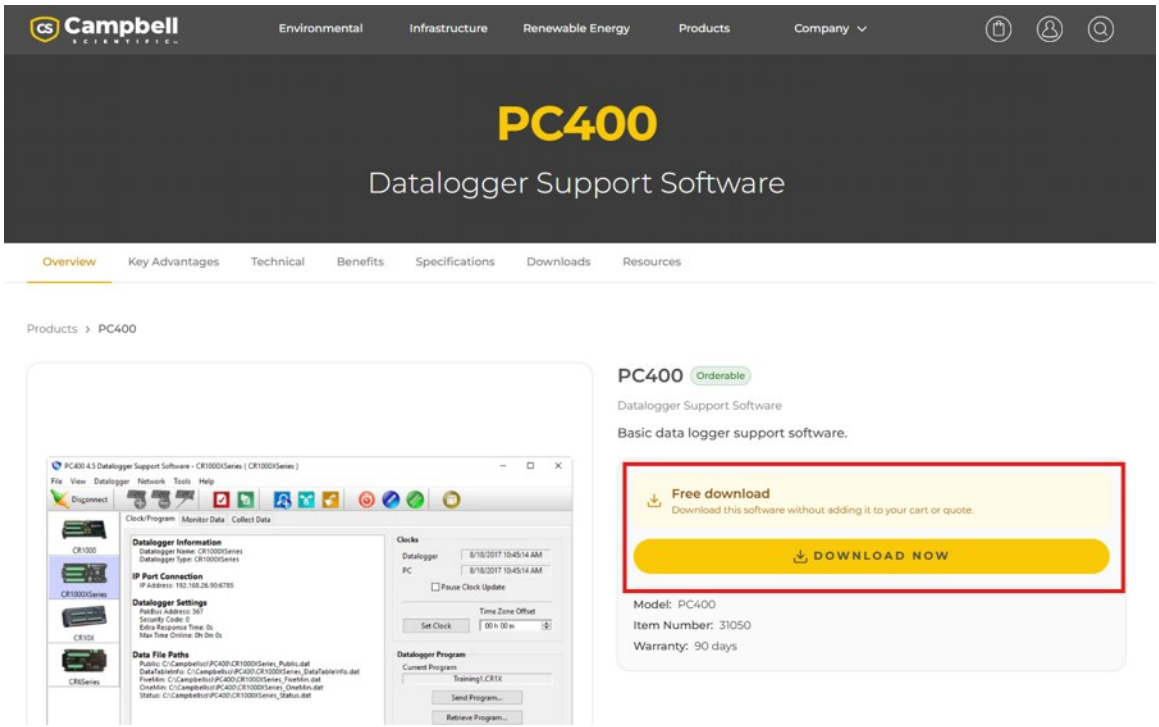
Table 10-1: QuickFire public variables		
Variable	Access	Description
SETUP_MESSAGE_2	Read only	String variable. Provides the user with additional important system initialization information and instructions.
Cell_State	Read only	String variable. Provides the user an indication of the real time modem status. Example states include: • Dialed • PPP negotiation • Network ready • PPP closing • PPP dropped • Power off • Powering up • Powered up • SIM authorized Settings baud rate • Waiting for baud rate • Baud rate set Baud rate failure • Dialing

Appendix A. *PC400* installation instructions

Reference the full ***PC400*** manual: help.campbellsci.com/PC400%20Manual/home.htm.

A.1 Install PC400

1. Create a Campbell Scientificwebsite account
   - Go to www.campbellsci.ca.
   - Create an account using the account option in the top-right corner of the page. Follow the on-screen prompts to complete the account setup.
   - Verify your email address when the confirmation email arrives. The verification email may take up to 10 minutes to appear in your inbox.
2. Download PC400: Datalogger Support Software.

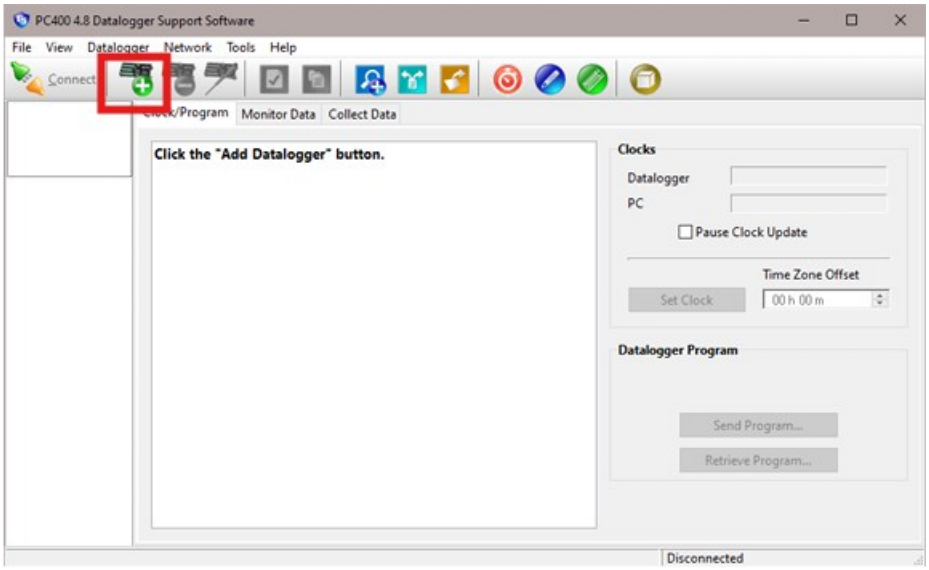


3. Install *PC400*
    - Run the installer (**PC400_version.exe**) and follow the on-screen prompts to complete the installation.
    - A shortcut to launch *PC400* will be added to your computer's **Start menu**.
    - If you accept the default installation locations:
        - Program and help files are installed to: **C:\Program Files (x86)\CampbellSci\PC400**
        - Working directories (configurations, data files, user programs, and accessory app settings) are created under: **C:\CampbellSci**
4. Activate/register
    - Enter the **key code** from the registration email into *PC400*, then press **Enter**.

A.2 Add a data logger for direct communication

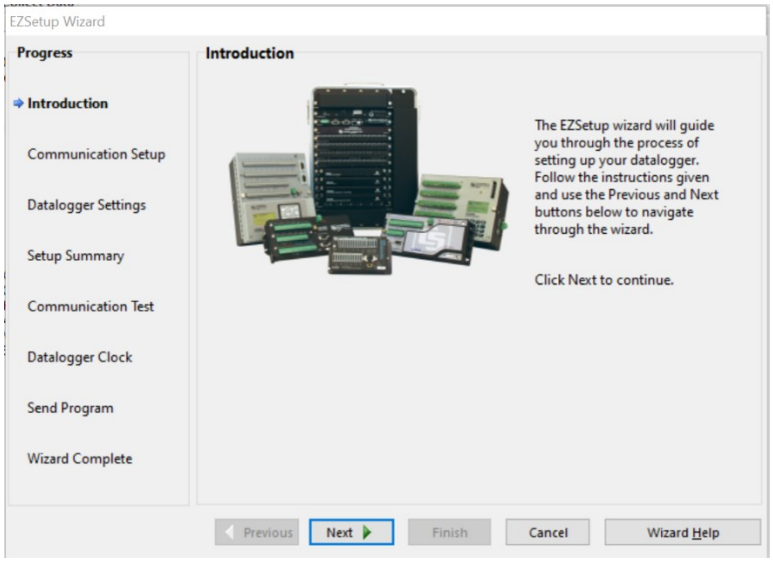
Use the *EZSetup Wizard* to set up and configure *PC400* to communicate with data loggers. The wizard appears automatically the first time you run *PC400*.

1. Click the **Add Data Logger** icon in the top left corner.

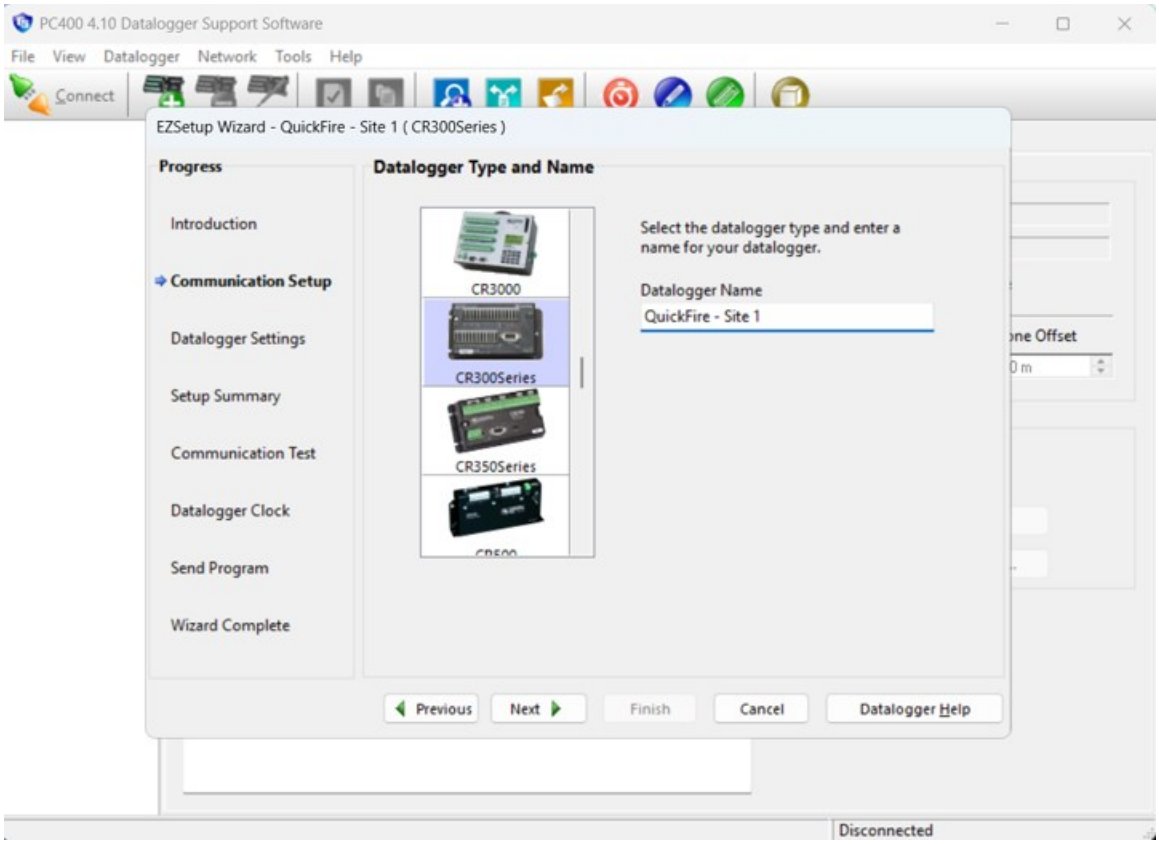


To add more data loggers, click **Add** on the main toolbar to open the *EZSetup Wizard* again. You also use this wizard to edit existing data logger and communication settings, through the **Edit** button.

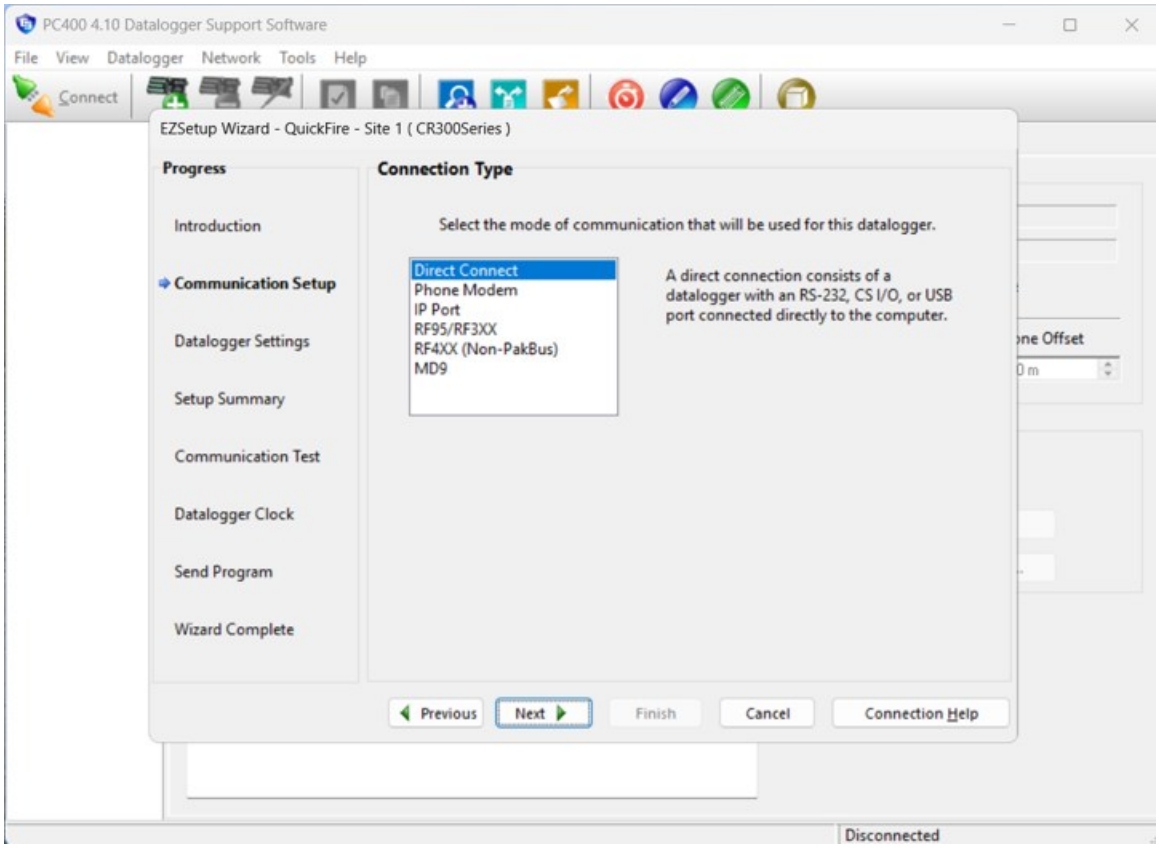
2. On the Introduction page, click **Next**.



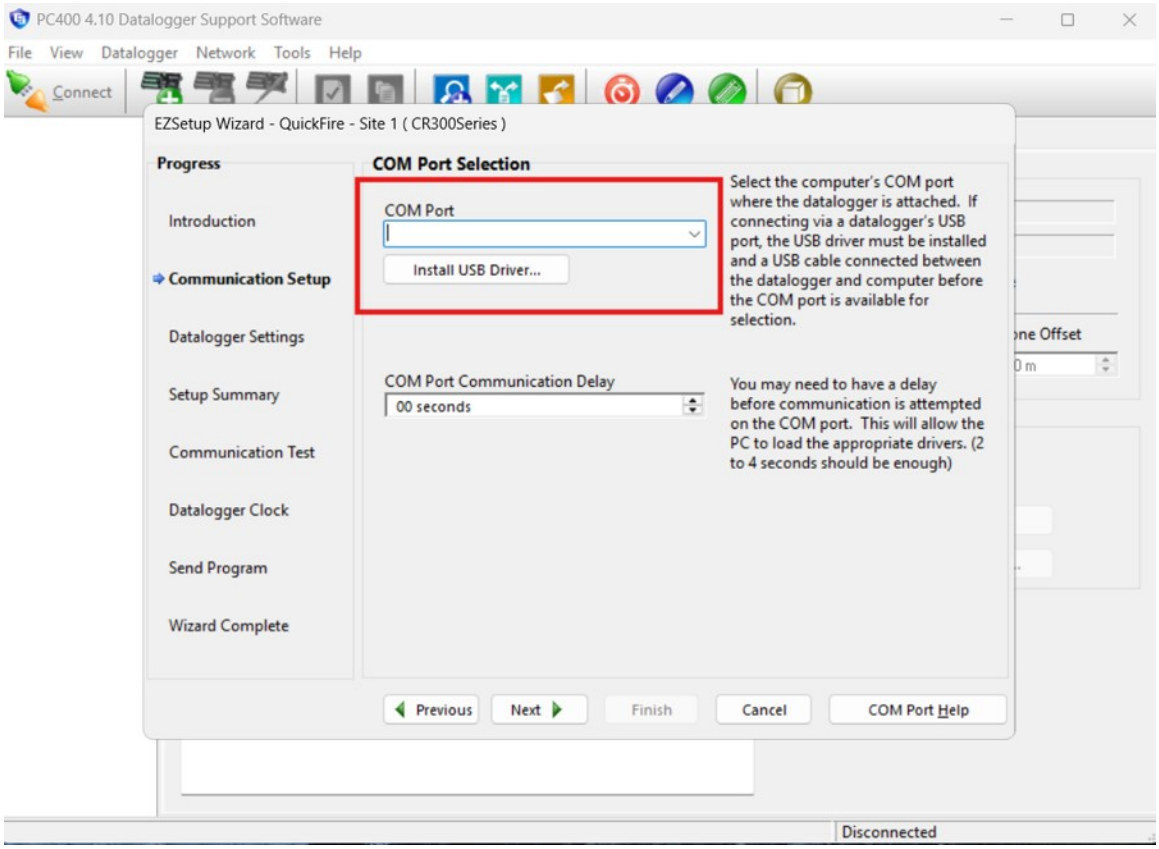
3. Select the **CR300 Series** data logger. You can change the name of your data logger at this point; for example, "QuickFire – Site 1". Click **Next**



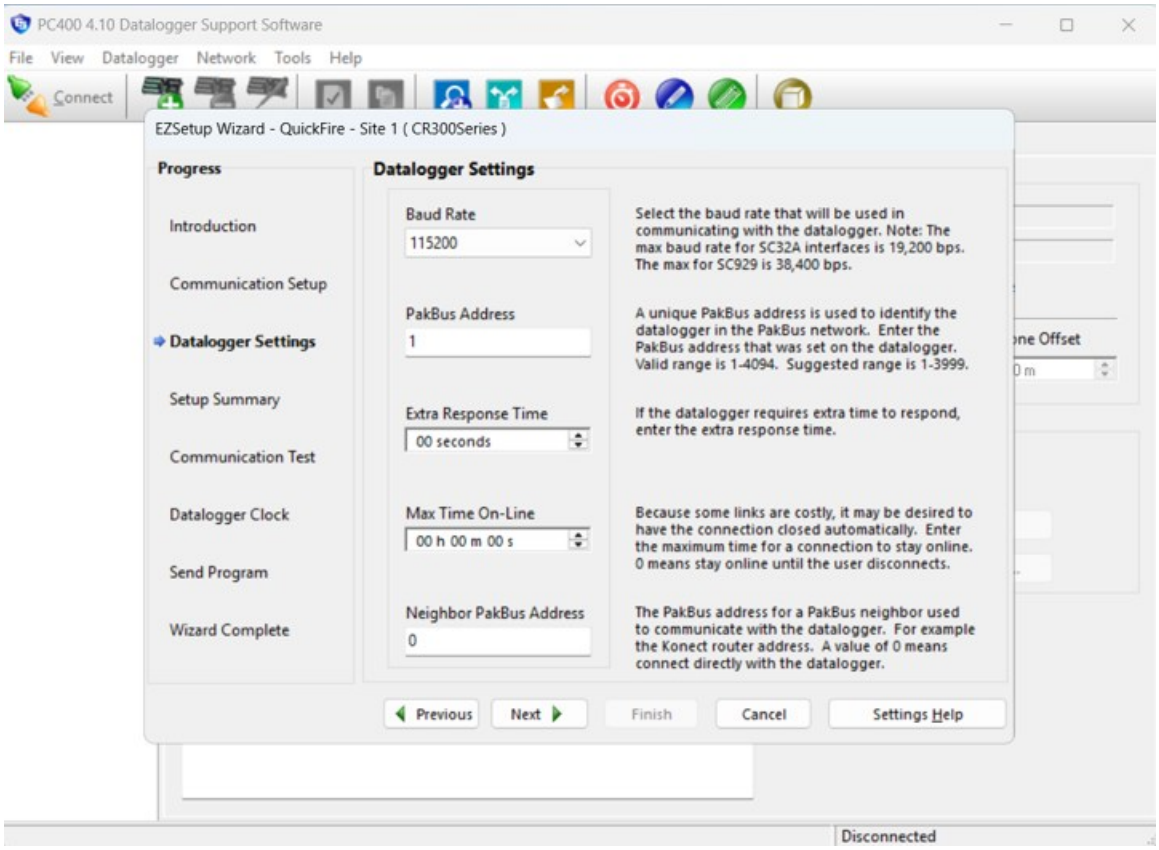
4. Select **Direct Connect**, and then click **Next**.



5. From the drop-down menu, select the **COM port** on your laptop that connects to the data logger. Then click **Next**. The USB driver should install when you plug the USB cable into the laptop. If it does not, click **Install USB Driver** below the **COM Port** selection box.

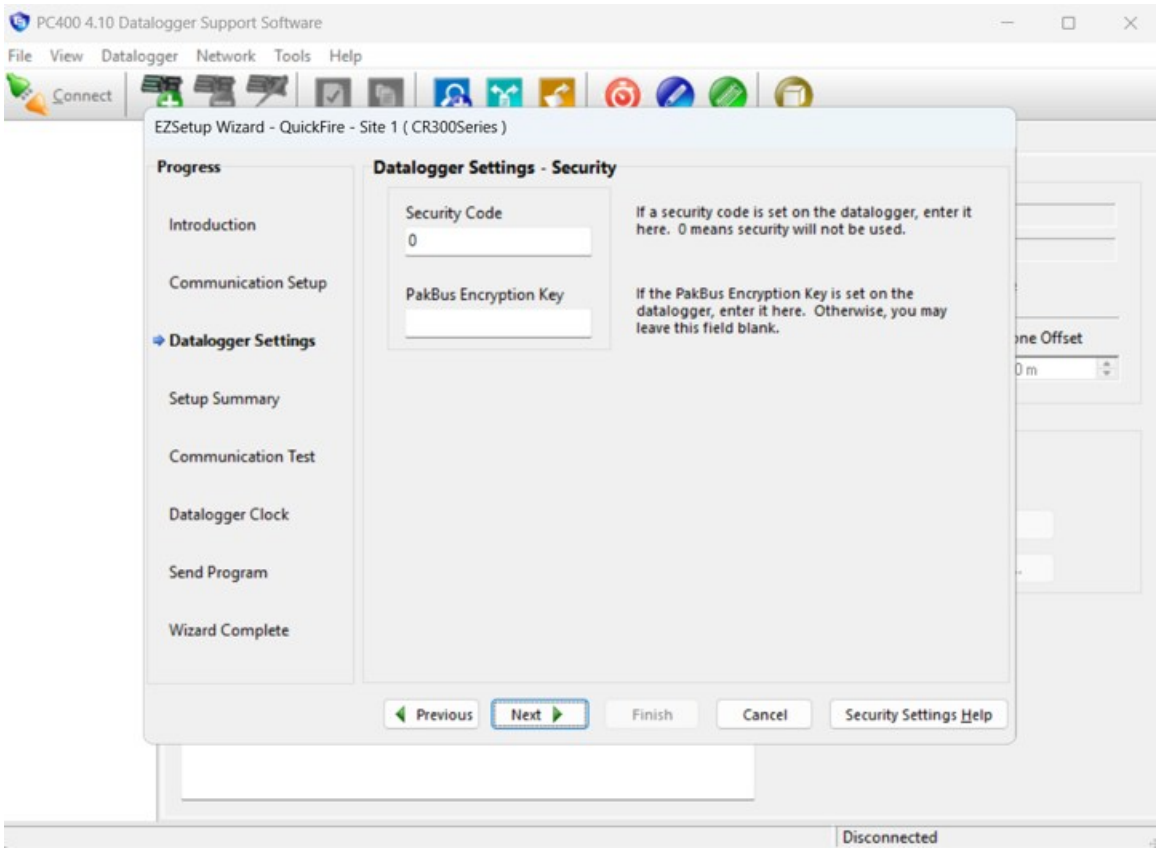


6. On the **Datalogger Settings** page, select **Next**. Leave all values as default.

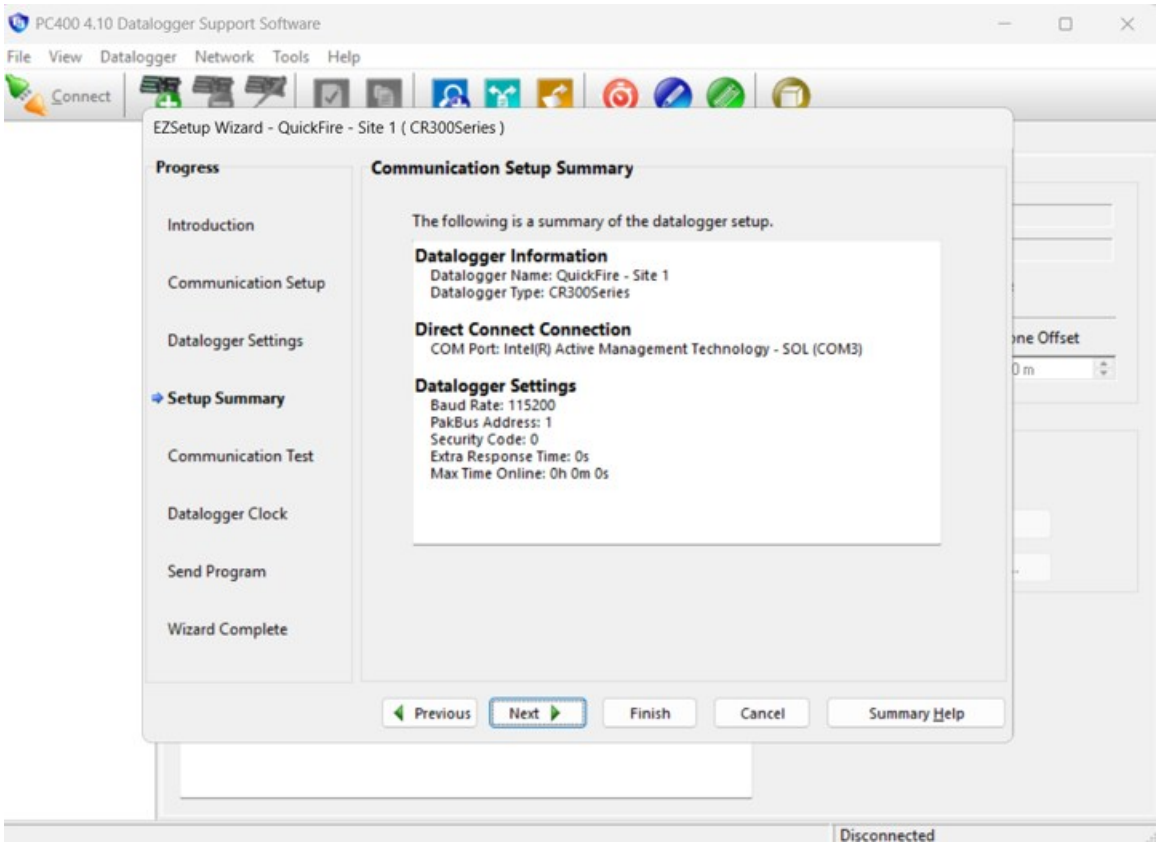


You may see a warning message. If it appears, disregard it and click **YES**.

7. On the **Datalogger Settings – Security** page, leave all values at their defaults, and click **Next**.

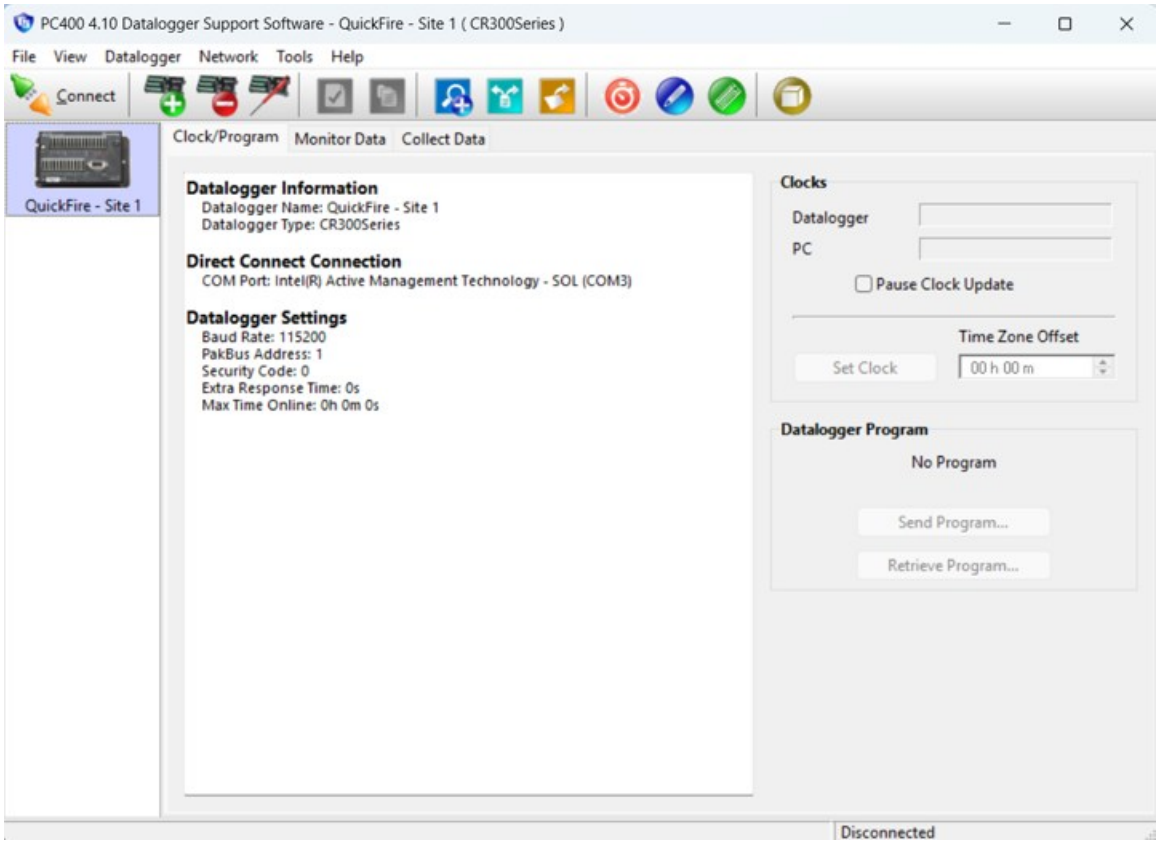


8. On the **Communication Setup Summary** page, and click **Next**.



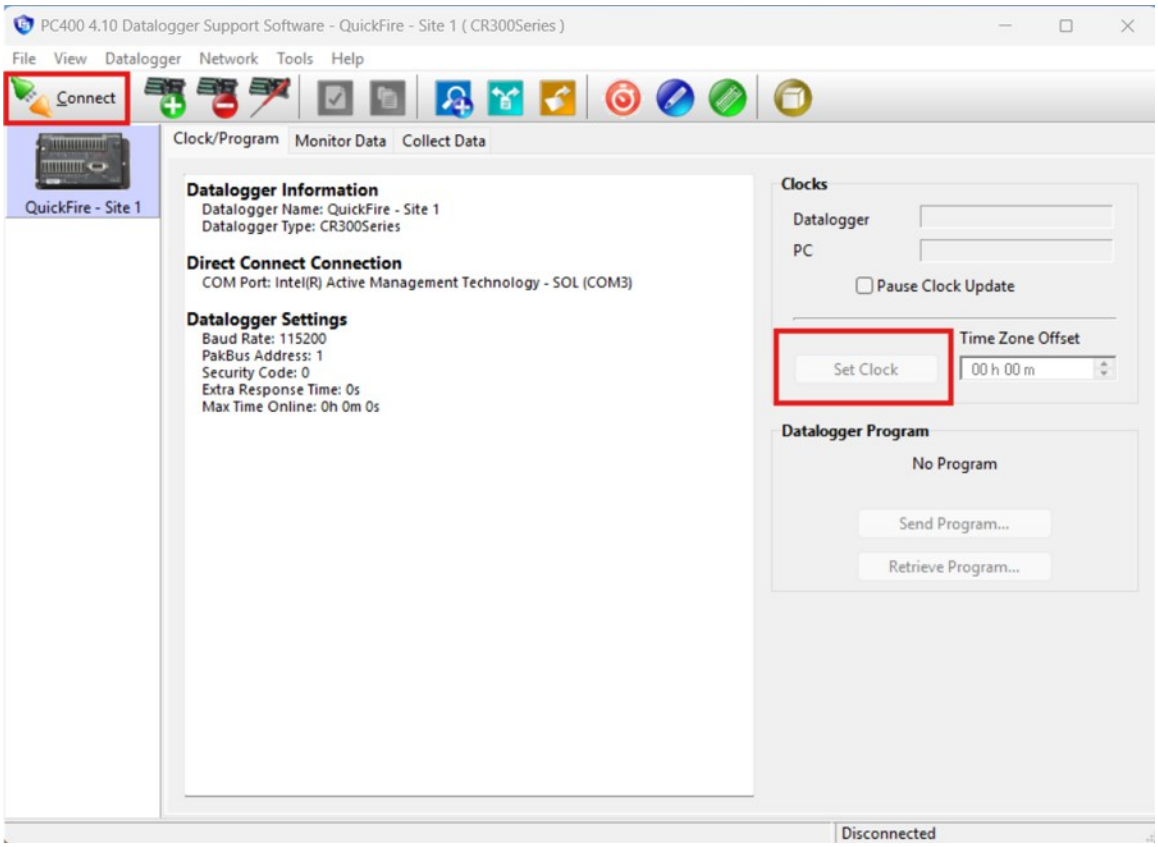
9. Test the connection by selecting **Yes** and clicking **Next**. If the data logger is on, the connection should succeed. Click **Finish**.

The data logger information now appears on your screen, as shown in the following screenshot.



A.3 Set the clock

The **Data logger Clock** portion of the **Clock/Program** tab displays the current time and date of the data logger and the current time and date of your computer.



To set the clock:

1. Open the **Clock/Program** tab.
2. In the **Clocks** window on the left, review the current date and time for the data logger and your computer.
3. To synchronize the data logger clock with the computer clock, click **Set Clock**.
4. To stop automatic clock updates, select the **Pause Clock Update** check box.
5. To apply a time zone offset, use the up or down arrows under **Time Zone Offset**, or enter a value directly. The offset can be adjusted in one-hour increments from −23 to +23 hours.
6. Click **Set Clock** to apply the selected time zone offset.

Limited warranty

Covered equipment is warranted/guaranteed against defects in materials and workmanship under normal use and service for the period listed on your sales invoice or the product order information web page. The covered period begins on the date of shipment unless otherwise specified. For a repair to be covered under warranty, the following criteria must be met:

1. There must be a defect in materials or workmanship that affects form, fit, or function of the device.

2. The defect cannot be the result of misuse.

3. The defect must have occurred within a specified period of time; and

4. The determination must be made by a qualified technician at a Campbell Scientific Service Center/ repair facility.

The following is not covered:

1. Equipment which has been modified or altered in any way without the written permission of Campbell Scientific.

2. Batteries; and

3. Any equipment which has been subjected to misuse, neglect, acts of God or damage in transit.

Campbell Scientific regional offices handle repairs for customers within their territories. Please see the back page of the manual for a list of regional offices or visit www.campbellsci.com/contact to determine which Campbell Scientific office serves your country. For directions on how to return equipment, see Assistance.

Other manufacturer's products, that are resold by Campbell Scientific, are warranted only to the limits extended by the original manufacturer.

CAMPBELL SCIENTIFIC EXPRESSLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTIES OF

MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Campbell Scientific hereby disclaims, to the fullest extent allowed by applicable law, any and all warranties and conditions with respect to the products, whether express, implied, or statutory, other than those expressly provided herein.

Campbell Scientific will, as a default, return warranted equipment by surface carrier prepaid. However, the method of return shipment is at Campbell Scientific's sole discretion. Campbell Scientific will not reimburse the claimant for costs incurred in removing and/or reinstalling equipment. This warranty and the Company's obligation thereunder is in lieu of all other

warranties, expressed or implied, including those of suitability and fitness for a particular purpose. Campbell Scientific is not liable for consequential damage.

In the event of any conflict or inconsistency between the provisions of this Warranty and the provisions of Campbell Scientific's Terms, the provisions of Campbell Scientific's Terms shall prevail. Furthermore, Campbell Scientific's Terms are hereby incorporated by reference into this Warranty. To view Terms and conditions that apply to Campbell Scientific, Logan, UT, USA, see Terms and Conditions. To view terms and conditions that apply to Campbell Scientific offices outside of the United States, contact the regional office that serves your country.

Assistance

Products may not be returned without prior authorization. Please inform us before returning equipment and obtain a **return material authorization (RMA) number** whether the repair is under warranty/guarantee or not. See Limited warranty for information on covered equipment.

Campbell Scientific regional offices handle repairs for customers within their territories. Please see the back page of the manual for a list of regional offices or visit www.campbellsci.com/contact to determine which Campbell Scientific office serves your country.

When returning equipment, a RMA number must be clearly marked on the outside of the package. Please state the faults as clearly as possible. Quotations for repairs can be given on request.

It is the policy of Campbell Scientific to protect the health of its employees and provide a safe working environment. In support of this policy, when equipment is returned to Campbell Scientific, Logan, UT, USA, it is mandatory that a "Declaration of Hazardous Material and Decontamination" form be received before the return can be processed. If the form is not received within 5 working days of product receipt or is incomplete, the product will be returned to the customer at the customer's expense. For details on decontamination standards specific to your country, please reach out to your regional Campbell Scientific office.

> NOTE:
> All goods that cross trade boundaries may be subject to some form of fee (customs clearance, duties or import tax). Also, some regional offices require a purchase order upfront if a product is out of the warranty period. Please contact your regional Campbell Scientific office for details.

Safety

DANGER — MANY HAZARDS ARE ASSOCIATED WITH INSTALLING, USING, MAINTAINING, AND WORKING ON OR AROUND TRIPODS, TOWERS, AND ANY ATTACHMENTS TO TRIPODS AND TOWERS SUCH AS SENSORS, CROSSARMS, ENCLOSURES, ANTENNAS, ETC. FAILURE TO PROPERLY AND COMPLETELY ASSEMBLE, INSTALL, OPERATE, USE, AND MAINTAIN TRIPODS, TOWERS, AND ATTACHMENTS, AND FAILURE TO HEED WARNINGS, INCREASES THE RISK OF DEATH, ACCIDENT, SERIOUS INJURY, PROPERTY DAMAGE, AND PRODUCT FAILURE. TAKE ALL REASONABLE PRECAUTIONS TO AVOID THESE HAZARDS. CHECK WITH YOUR ORGANIZATION'S SAFETY COORDINATOR (OR POLICY) FOR PROCEDURES AND REQUIRED PROTECTIVE EQUIPMENT PRIOR TO PERFORMING ANY WORK.

Use tripods, towers, and attachments to tripods and towers only for purposes for which they are designed. Do not exceed design limits. Be familiar and comply with all instructions provided in product manuals. Manuals are available at www.campbellsci.com You are responsible for conformance with governing codes and regulations, including safety regulations, and the integrity and location of structures or land to which towers, tripods, and any attachments are attached. Installation sites should be evaluated and approved by a qualified engineer. If questions or concerns arise regarding installation, use, or maintenance of tripods, towers, attachments, or electrical connections, consult with a licensed and qualified engineer or electrician.

General

- Protect from over-voltage.
- Protect electrical equipment from water.
- Protect from electrostatic discharge (ESD).
- Protect from lightning.
- Prior to performing site or installation work, obtain required approvals and permits. Comply with all governing structure-height regulations, such as those of the FAA in the USA.
- Use only qualified personnel for installation, use, and maintenance of tripods and towers, and any attachments to tripods and towers. The use of licensed and qualified contractors is highly recommended.
- Read all applicable instructions carefully and understand procedures thoroughly before beginning work.
- Wear a hardhat and eye protection, and take other appropriate safety precautions while working on or around tripods and towers.
- Do not climb tripods or towers at any time, and prohibit climbing by other persons. Take reasonable precautions to secure tripod and tower sites from trespassers.
- Use only manufacturer recommended parts, materials, and tools.

Utility and Electrical

- You can be killed or sustain serious bodily injury if the tripod, tower, or attachments you are installing, constructing, using, or maintaining, or a tool, stake, or anchor, come in contact with overhead or underground utility lines.
- Maintain a distance of at least one-and-one-half times structure height, 6 meters (20 feet), or the distance required by applicable law, whichever is greater, between overhead utility lines and the structure (tripod, tower, attachments, or tools).
- Prior to performing site or installation work, inform all utility companies and have all underground utilities marked.
- Comply with all electrical codes. Electrical equipment and related grounding devices should be installed by a licensed and qualified electrician.
- Only use power sources approved for use in the country of installation to power Campbell Scientific devices.

Elevated Work and Weather

- Exercise extreme caution when performing elevated work.
- Use appropriate equipment and safety practices.
- During installation and maintenance, keep tower and tripod sites clear of un-trained or non-essential personnel. Take precautions to prevent elevated tools and objects from dropping.
- Do not perform any work in inclement weather, including wind, rain, snow, lightning, etc.

Internal Battery

- Be aware of fire, explosion, and severe-burn hazards.
- Misuse or improper installation of the internal lithium battery can cause severe injury.

- Do not recharge, disassemble, heat above 100 °C (212 °F), solder directly to the cell, incinerate, or expose contents to water. Dispose of spent batteries properly.

Use and disposal of batteries

- Where batteries need to be transported to the installation site, ensure they are packed to prevent the battery terminals shorting which could cause a fire or explosion. Especially in the case of lithium batteries, ensure they are packed and transported in a way that complies with local shipping regulations and the safety requirements of the carriers involved.
- When installing the batteries follow the installation instructions very carefully. This is to avoid risk of damage to the equipment caused by installing the wrong type of battery or reverse connections.
- When disposing of used batteries, it is still important to avoid the risk of shorting. Do not dispose of the batteries in a fire as there is risk of explosion and leakage of harmful chemicals into the environment. Batteries should be disposed of at registered recycling facilities.

Avoiding unnecessary exposure to radio transmitter radiation

- Where the equipment includes a radio transmitter, precautions should be taken to avoid unnecessary exposure to radiation from the antenna. The degree of caution required varies with the power of the transmitter, but as a rule it is best to avoid getting closer to the antenna than 20 cm (8 inches) when the antenna is active. In particular keep your head away from the antenna. For higher power radios (in excess of 1 W ERP) turn the radio off when servicing the system, unless the antenna is installed away from the station, e.g. it is mounted above the system on an arm or pole.

Maintenance

- Periodically (at least yearly) check for wear and damage, including corrosion, stress cracks, frayed cables, loose cable clamps, cable tightness, etc. and take necessary corrective actions.
- Periodically (at least yearly) check electrical ground connections.

WHILE EVERY ATTEMPT IS MADE TO EMBODY THE HIGHEST DEGREE OF SAFETY IN ALL CAMPBELL SCIENTIFIC PRODUCTS, THE CUSTOMER ASSUMES ALL RISK FROM ANY INJURY RESULTING FROM IMPROPER INSTALLATION, USE, OR MAINTENANCE OF TRIPODS, TOWERS, OR ATTACHMENTS TO TRIPODS AND TOWERS SUCH AS SENSORS, CROSSARMS, ENCLOSURES, ANTENNAS, ETC.

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Website:	www.campbellsci.asia

UK

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