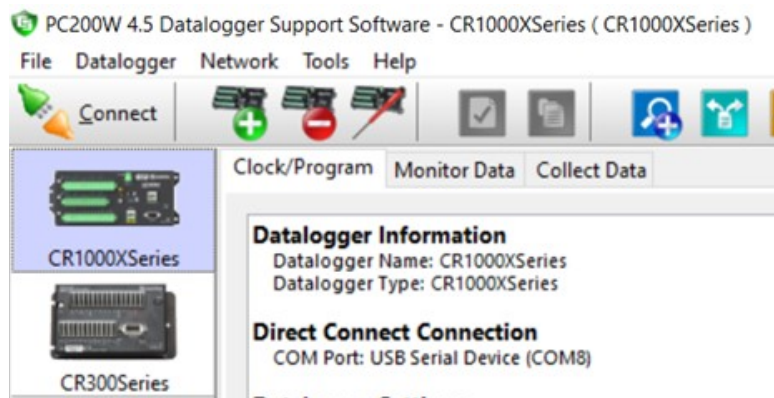


PC200W Terminal Emulator

A Quick Start Guide

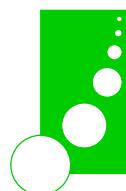
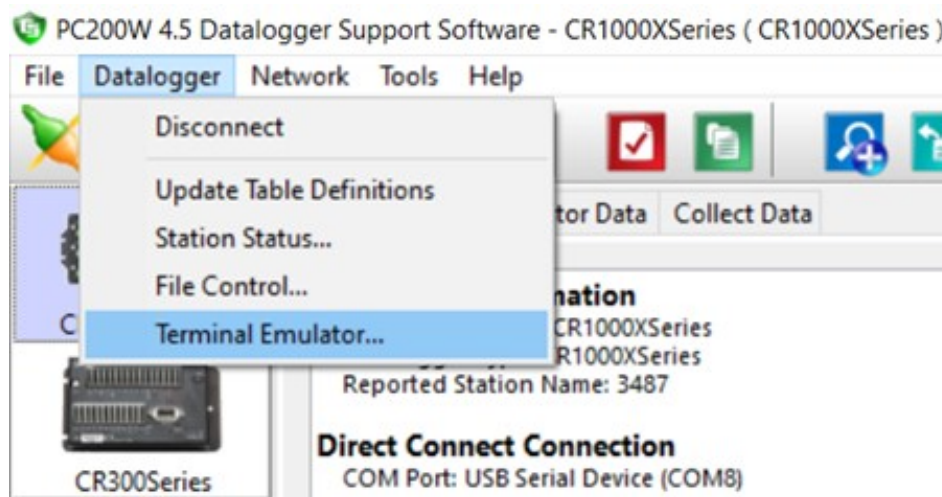
Step 1:

- Open PC200W software and ensure USB is connected to computer and data logger.
- Click on the correct data logger icon, for example CR300 or CR1000X.
- Click on “CONNECT”.



Step 2:

- Click on “Datalogger” drop down menu at the top of the screen.
- Click on “Terminal Emulator...”



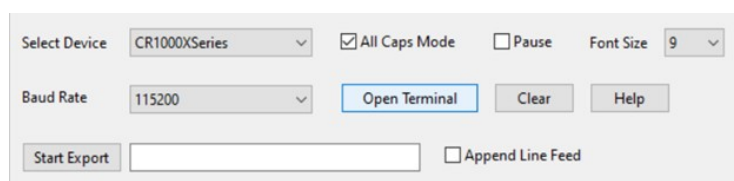
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Step 3:

- Connect Sap Flow Sensor wires to the CR300 or CR1000X by connecting GND (ground) first.
- Wiring:
 - o GREEN or BLACK: G (ground)
 - o WHITE: C1 (data)
 - o BROWN or RED: 12V power
- Power must be supplied from continuous 12V and not the switched 12V (do not use SW12).

Step 4

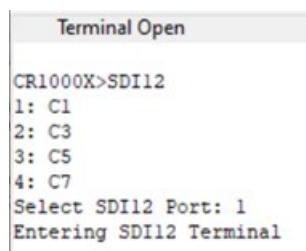
- On Terminal Emulator GUI, click on “Open Terminal”. Do not change other settings.

**Step 5**

- The terminal window will say “Terminal Open”. You may need to hit “Enter” on your keyboard a few times until CR300> or CR1000X> appears:

**Step 6**

- Type SDI12 and “Enter”
- Select 1 for the C1 SDI12 port (this is where you connected the data wire in step 3)



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Step 7

- These are the SDI-12 commands to set up the sap flow sensor for measurement. Refer to the sap flow sensor's integrator's guide for a full list of SDI-12 command options.

- 0XTDD! – returns trunk diameter value for sensor address 0. Default value is 10.0 cm.
- 0XTDD=24.3! – changes the trunk diameter to 24.3 cm. Instead of 24.3, insert the value for your trunk diameter. The units must be in centimeters.
- 00XBDD! – returns bark depth value for sensor address 0. Default value is 0.5 cm.
- 0XBDD=0.2! – changes the bark depth to 0.2 cm. Instead of 0.2, insert the value for your bark depth. The units must be in centimeters.
- 0XDDW! – returns dry density of wood for sensor address 0. Default value is 0.400 g/cm³.
- 0XDDW=0.558! – changes the dry density of wood to 0.558 g/cm³. Instead of 0.558, insert the value for your dry density of wood. The units must be in g/cm³.

- You may have more than one SDI-12 sensor connected to your bus or data acquisition unit. SDI-12 sensors can never have the same address. Therefore, you will need to change the address of at least one SDI-12 sensor. To change an address, use the following command: 0A1!
- This command will change sensor address 0 to address 1.
- Your sap flow sensor is now configured and ready to install into the tree.

Step 8

- To finish, click on "Close Terminal" and disconnect the sap flow sensor from the data logger.