8000 Series Installation & Configuration

Step 1: Install Software

a. 8000 Utility

i. Load the SuperLogics CD
ii. Click on **Install Products**
iii. Click on **Install 8000 Utility**
iv. Click **Next** at the **Welcome to the InstallShield Wizard for 8000 Series Utility** screen
v. Click **Next** at the **Choose Destination Location** screen.
vi. Setup will now copy files onto your computer.
vii. Once Setup has completed, click **Finish**. The 8000 Utility is now installed on your system. You may now click back to the **Install Products** screen and continue with your software installation of WINview CP.

b. WINview CP

i. Click on **Install WINview CP v2.5**
ii. Click **Yes** at the **License Agreement** screen once you have read and agree to the End-User License agreement
iii. Click on **OK** at the **WINview CP Installation Copy To** screen.
iv. Setup will now copy files onto your computer.
v. When Setup has completed, click **Restart**
vi. After the computer has restarted, installation of software is complete. If you purchased WINview CP Plus or WINview CP PRO, you will need to follow the directions for entering your unlock code.

c. Entering an Unlock Code

i. If you purchased **WINview CP Plus**, **WINview CP PRO**, a **CP82xx**, or an **85xx**, (***excluding the CP8200/8500***), you must enter the unlock code included on your SuperLogics CD in order to unlock all capabilities of the software.
ii. Load the SuperLogics CD
iii. Click on **Install Products**
iv. Click on **View Unlock Code for WINview CP Plus/PRO 85xx**
v. The unlock code will be a string of characters. Highlight this entire string and hit **Ctrl-C** to copy the unlock code.
vi. Start WINview CP
vii. Click on **Enter Upgrade Code** in the main screen. A box will appear in the main screen slightly above the button.
viii. Click in this box, then hit **Ctrl-V** to paste the unlock code into the box.. The unlock code should appear in the box. Then hit **Enter**.
ix. The full features of your purchased software are now unlocked.

Step 2: Configure Module(s)

a. Wiring Your Module(s)

> **NOTE:** If you bought a CP82xx or an 85xx, the modules are pre-wired, and you may skip this step and move on to **Module Settings**.

i. You will need four (4) pieces of wire, preferably 22 AWG to connect your module to an **8520**, or equivalent RS232-to-RS485 converter.
ii. Take one wire, and connect one (1) end to the **Data+** terminal on the **8520**. Connect the other end and connect it to the **Data+** terminal on the **80xx** module, such as an **8018**.
iii. Similarly, connect the **Data-** terminals on the **8520** and **80xx** module together.
iv. Next, take another wire and connect the **(R)+Vs** terminals on the **8520** and **80xx** together.
v. The last wire is used to connect the **(B)GND** terminals on the **8520** and the **80xx** together.
vi. You will also need a power supply to power your modules. These modules require a **10-30VDC** power source, and have the ability to dasy-chain that source, so one (1) power supply can supply multiple modules. This power source will have to be wired in-line with the power wires of the modules. We find it easiest to do this at the **8520** terminal block.
    1. Connect the **Positive (+)** wire of the power source to the **(R)+Vs** terminal.
    2. Connect the **Negative (-)** wire of the power source to the **(B)GND** terminal.
vii. Last, you must connect the standard RS232 cable, supplied with the **8520**, from the **DB9 female** port on the **8520** to the **DB9 Male** port on your computer.
viii. Your modules are now wired. Continue through this guide to configure your module and system to get the best data collection.

b. Module Settings

i. Start the **8000 Utility**.
ii. To set the com port you wish you use, click on **COM port** on the menu line.
iii. A window will open with data transmission settings. Use the drop-down list next to **COM to search** to choose which com port you will be using.
iv. In the **Baud Rate to search** section, check all baud rates you would like to search.
v. Click on **OK**
vi. Note: If you have multiple modules hooked up, you will need to address them accordingly. Please follow the below instructions for addressing, then continue.

1. Module Addressing

a. In order to address each module, you will have to have only one hooked up at a time. 8000 series modules default to address 01, so you can start with the second module in your line. Leave this one hooked up, and disconnect all other 80xx modules.
b. In the **8000 Utility**, click on the **Search** menu button. The utility will now search the com port and find all modules which are connected.
c. Double-click on the module name you wish to re-address in the **Searching for 8000 Series Modules…** window.
d. In the **Setting Configuration Window for 80xx** window, use the up and down buttons next to **Address[dec]** box to set the module address.
e. Click the **Setting** button, then click **OK**.

f. The address of your module has now been set.
g. Repeat steps **B** through **E** for each module you are going to have on your network.

2. ***Setting Your Input Range***
   a. In the **8000 Utility**, click on the **Search** menu button. The utility will now search the com port and find all modules which are connected.
   b. Double-click on the module name you wish to set in the **Searching for 8000 Series Modules…** window.
   c. In the **Setting Configuration Window for 80xx** window, use the drop-down list next to **Input Range** to set what range your inputs will be.
   d. Click the **Setting** button, then click **OK**
   e. Your module's input range has now been changed.
3. ***Changing the Baud Rate***
   a. Disconnect/power-down the module you wish to set.
   b. Jumper (connect a wire between) the **(B)GND 10** terminal and the **INIT*** terminal.
   c. Reconnect/power-up your module.
   d. In the **8000 Utility**, click on the **Search** menu button. The utility will now search the com port and find all modules which are connected.
   e. Double-click on the module name you wish to set in the **Searching for 8000 Series Modules…** window.
   f. Using the drop-down menu next to **Baud Rate**, choose the baud rate you want to your module to transmit at.
   g. Click the **Setting** button.
   h. Disconnect/power-down the module
   i. Remove the wire you connected between the **(B)GND 10** terminal and the **INIT*** terminal.
   j. Reconnect/power-up your module.
   k. Click **OK**
   l. The baud rate has now been changed.

NOTE: After changing the baud Rate of the module, you must also change the baud Rate which you want to use in the **8000 Utility**. Follow the first steps under **Module Settings** in this guide to complete this procedure.

NOTE: Powering-down your module and reconnecting the **INIT*** terminal to the **(B)GND 10** terminal again results in the module returning to the default baud rate of 9600.

Step 3: Set Up WINview CP

> **NOTE:** The following instructions pertain to functions only available in purchased versions of WINview CP. If you are using the free version, please refer to the **WINview CP Free Quick Start Guide**.

a. Loading the .Set File

i. **NOTE:** Loading the .set for your module will load all the default software settings for your module.
ii. Start **WINview CP**
iii. Click on **Load Previous Settings**
iv. Click on **File** in the **Load Settings From…** section.
v. Choose the .set file that corresponds to the module you are going to be using and click **Open**. For example, if you were using an **8018**, you would choose the 8018.set file and click **Open**.
vi. Click on **Load**
vii. **WINview CP** will now load all default settings for the module you chose. When it is done, the single-graph window will open. At this time, you may either click on **To Main Menu** to go back to the main WINview CP screen, or on **To Settings Menu** to choose specific settings for your analysis such as the number of samples you want and disk writing options.

b. Testing Your WINview CP Configuration

i. Using the above steps, load the .set file corresponding to your module
ii. From the **WINview CP Main Menu**, click on **RS232 (Push to Set-up Device)** under the **Step 1: Select Data Source** section.
iii. On the top line, select which **COM Port** and **Baud Rate** you are using.
iv. Loading the .set file causes the correct default outbound command to be entered into the **Send this command to request data from the device** box. For example, if you were using an **8018**, the outbound command would be **#010**. This command is in the format of **#AAN**, where **AA** is the module address, and **N** is the channel number you are testing. By default, **WINview CP** would test **channel 0** on the module addressed as **01** when the **8018.set** file is loaded.
v. Click on **Test RS232**
vi. If everything is configured correctly, you should see a response in the **Received** box. The response should be something like **>+0.004**.
vii. If you do not receive a command, here are some things to check before calling for technical support.
    1. Make sure you are using the correct **COM PORT**
    2. Make sure your **Baud Rate** is set correctly.
    3. Make sure you have loaded the correct .set file for your module.
    4. Check that all modules are wired correctly (**Data+** to **Data+**, **Data-** to **Data-**, etc)
    5. Check for loose or broken wires.
    6. Make sure all modules, including the **8520**, are powered on.