INSTALLING NEW 5200 SOFTWARE:

Before beginning the process of updating software in a Model 5200:

> **Note:** *If you have AquaManager software you will have to contact YSI directly to get the updated version. Please contact YSI Technical Support at environmental@ysi.com or 937-767-7241. Please do not update the firmware until you have the updated AquaManager software as the 5200 will not communicate to your current version if it is updated.*

1.) First turn off the AutoPoller if it is enabled. And complete a manual poll to collect all the stored data in the 5200. (if this is not done then you will loose the stored data from the 5200 instrument.)

2.) Model 5200's must be disconnected from any active RS-485 connected network.

3.) The Model 5200 must be configured to be in MASTER Mode.

> **Note:** *If the 5200 is not in MASTER mode by the time we get to actually installing the new software then the 5200 will not enter the downloader mode.* You will have to exit the software using the FILE MENU:

4.) The factory supplied RS-485 terminating plug with two resistors must be installed in the RS-485 connector. See details referring to figure(s) 39, below. The resistors are 120-150 ohm 1/8 watt minimum components. Suitable replacement parts can be obtained from a local electronics store.

(a) Install two resistors into a 4-Pole pluggable socket (supplied with instrument). Bend the lead wire of the resistor (as shown in Figure 39(a). Then cut the lead wire to approximately ½-inch (as shown in Figure 39(b). Bend each lead inward and form a knee-bend so that the leads will fit into the connector. Insert two resistors into the 4-pole pluggable socket as shown in Figure 39(c) and Figure 39(d). Tighten the screws.

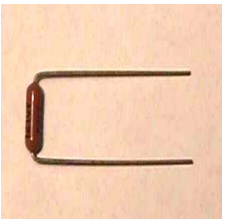

Figure 39(a)

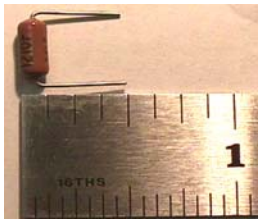

Figure 39(b)

Figure 39(c)

Figure 39(d)

5.) Connect the Model 5200 to your computer using the RJ45 cable and adapter originally provided with the product.

6.) Power up the instrument.

7.) Install the Updater program on the Personal Computer to be used for upgrades.
8.) Open and Start the Updater software. If there are multiple instruments to be processed then the software need not be restarted for each one.

When the software starts:

A.) It assumes that you will use Comm1 on your computer. It attempts to verify that the port is present and functional. It does not immediately try to verify that the 5200 is there.

NOTE: If a different communications port is needed, select one from the Comm. Port MENU on the 5200 Code Updater Menu Bar. Although unconfirmed, user's have reported that they have had to select the Comm. Port twice before it showed correctly on the legend "Instrument on Comm. n". The legend bar is located at the upper left-hand area of the Code Updater window.

B.) The updater assumes that you will use the 5200.Hex file packaged with the software which is installed in the C:\Program Files\5200 Updater directory. It verifies that the file is present, counts its size and shows the current revision-level in the white-window at the lower-left-hand area of the program window. See Figure #1.

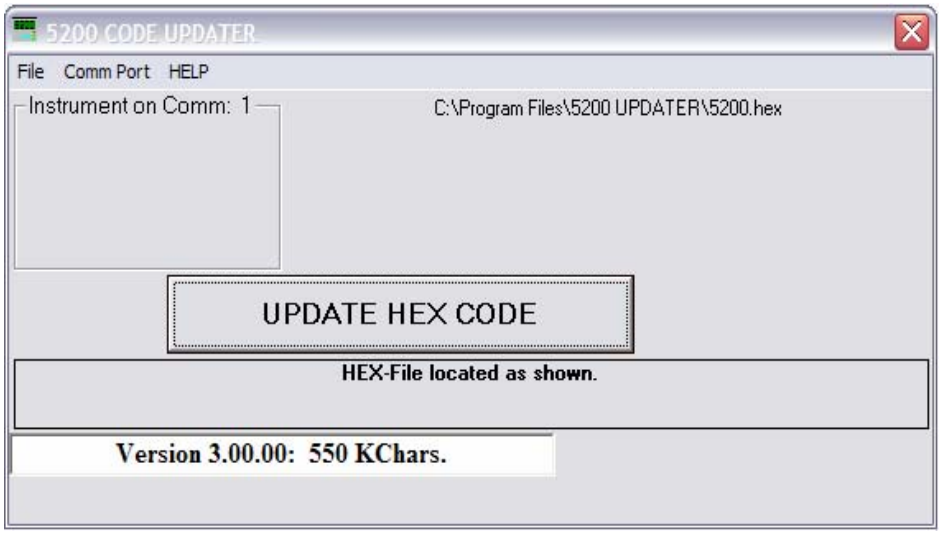

Figure #1

9.) If everything in steps #1 through #6 is in order then you only need to click on the big button that says [UPDATE HEX CODE].

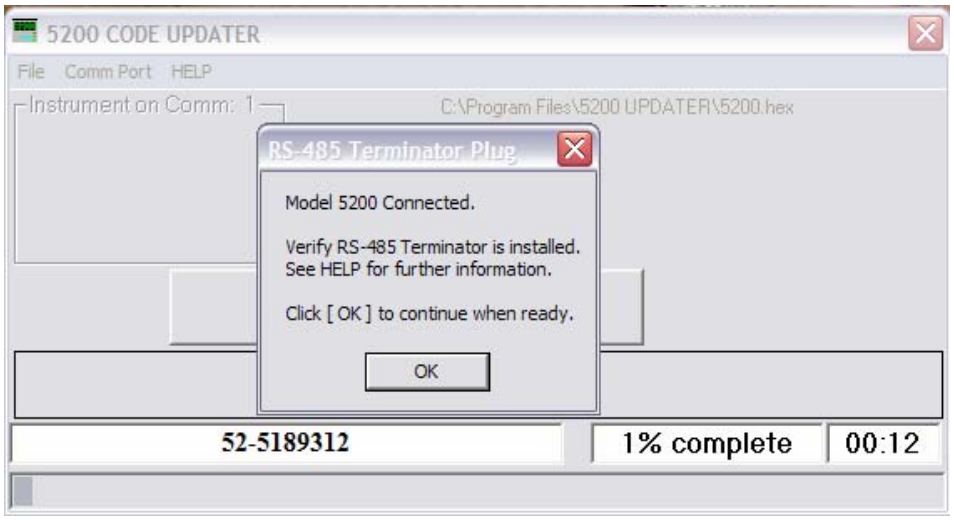

Figure #2

10.) The first time the software attempts to identify the instrument it will ask that you verify the RS-485 termination is in place. See Figure #2. Check that this is in place and click on [OK] to continue.

11.) After that process is complete then two messages, Figures #3 and #4, will appear advising where accessory files have been stored. Read these messages and save any files that you might want to keep to another location before continuing with the next unit

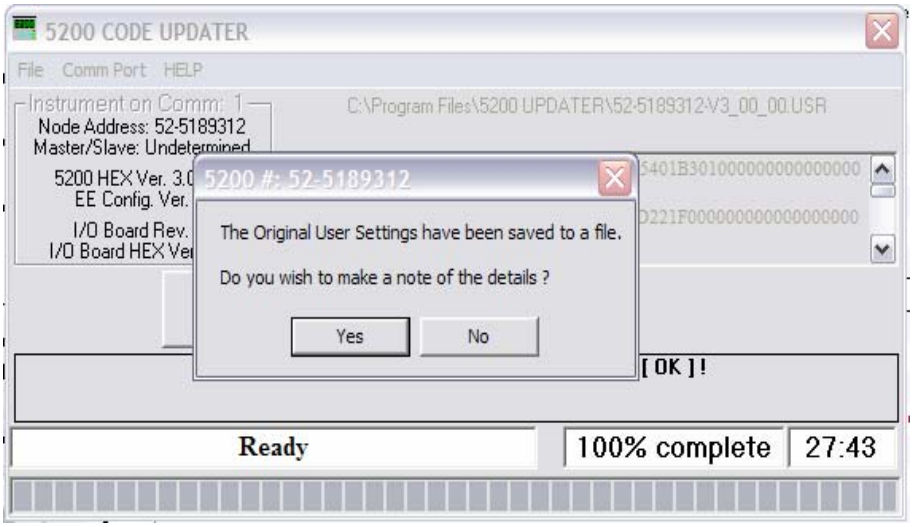

Figure #3

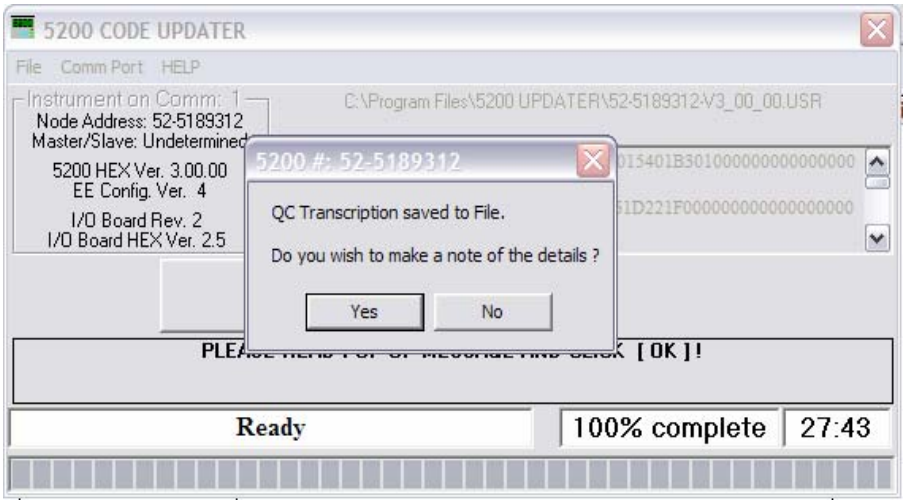

Figure #4

12.) The 5200's software update is complete when you see "Update Complete" on the screen as shown in Figure #5. You can now disconnect the PC from the 5200.
13.) Perform a "Reset To Factory."
14.) Power cycle the 5200 monitor by disconnecting the main and backup power for 10 seconds, then reconnect power.
15.) If the updated 5200 is used in a network, reconfigure the unit as needed. A slave unit will have to be changed back to a slave and network settings confirmed.
16.) Commit update to instrument from AquaManager.

Important: Confirm critical settings for control and dosing functions and verify calibration of sensors.

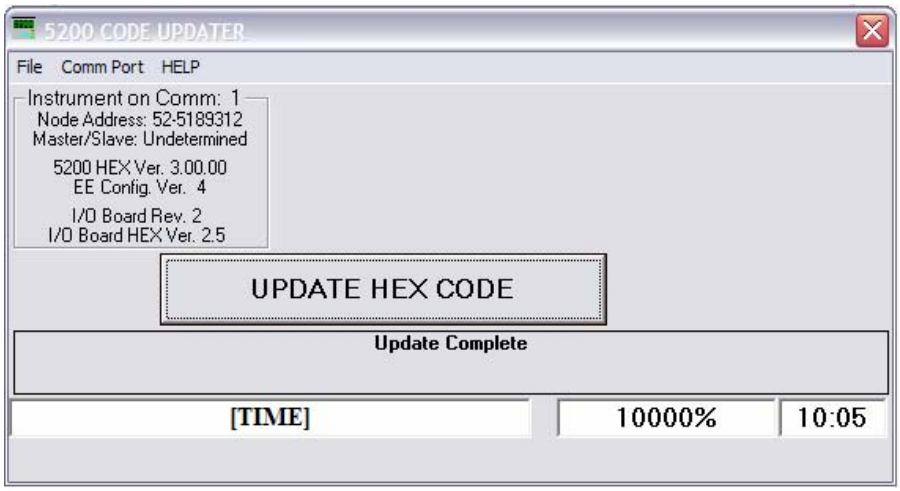
5200 CODE UPDATER
File
Comm Port
HELP
Instrument on Comm: 1
Node Address: 52-5189312
Master/Slave: Undetermined
5200 HEX Ver. 3.00.00
EE Config. Ver. 4
I/O Board Rev. 2
I/O Board HEX Ver. 2.5
UPDATE HEX CODE
Update Complete
[TIME]
10000%
10:05

Figure #5