

TSA Upgrade

Installation Instructions

These instructions are for upgrading or adding software options to a T5 Series or Colibri console using the TSA Upgrade Tool.

Important: Before attempting any upgrade, download and save the most recent setup file to your computer.

Note: Do not upgrade EMS consoles used with balance systems (see Tech bulletin TB0110-02).

Download Upgrade Firmware

The upgrade firmware can be downloaded from our website OR can be ordered from Franklin Fueling Systems on a USB memory stick. Part # TSA-UPGMS for T5 Series (EVO not included), Part # CL-UPGMS for Colibri. There is no USB memory stick option available for the TS-550 evo. The TS-550 evo must use the website download option.

- To download from the website, go to www.franklinfueling.com. Select Service \ Software Downloads.
 - The Software Downloads are separated into Colibri, T5 Series, and TS-550 evo Software Downloads. Click on the appropriate version. Fill in the Contact Information and click Download Software.

- To download from the USB memory stick.

Insert the USB memory stick into the USB port of the computer that will be used to perform the Software Upgrade. Browse to the file to select it.

The downloaded file will be named by the version (example T5S1545341.exe). After downloading, the user will be prompted to run the file and this will open the extraction utility and the user must select the destination for the files or accept the default destination. Once the extraction is complete then TSAUpgradeTool.exe will start.



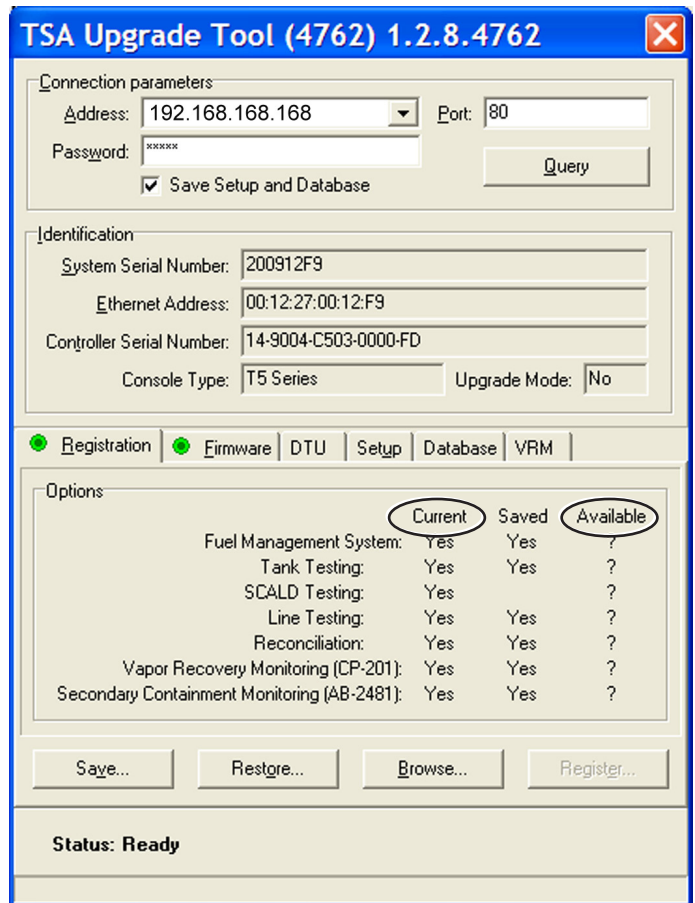
Connection parameters

Default settings for the connection parameters are as follows:

- Address:** 192.168.168.168 is the default for a tank gauge console and is what will be used as a IP address when connecting with the Ethernet crossover cable. If you are upgrading the console remotely, enter the correct IP address of the console here.
- Port:** port 80 is the default port setting for the consoles
- Password:** the default password for the tank gauge console is admin and is entered as a default on the TSA Upgrade Tool. If the password on the console has been changed, enter the correct password here.

After the connection parameters are entered correctly, click the QUERY button. This will connect the TSA Upgrade Tool to the T5 series console and retrieve the registration, firmware and database information from the console.

The identification information will be entered automatically from the console. No information has to be manually entered in here.



Registration Tab

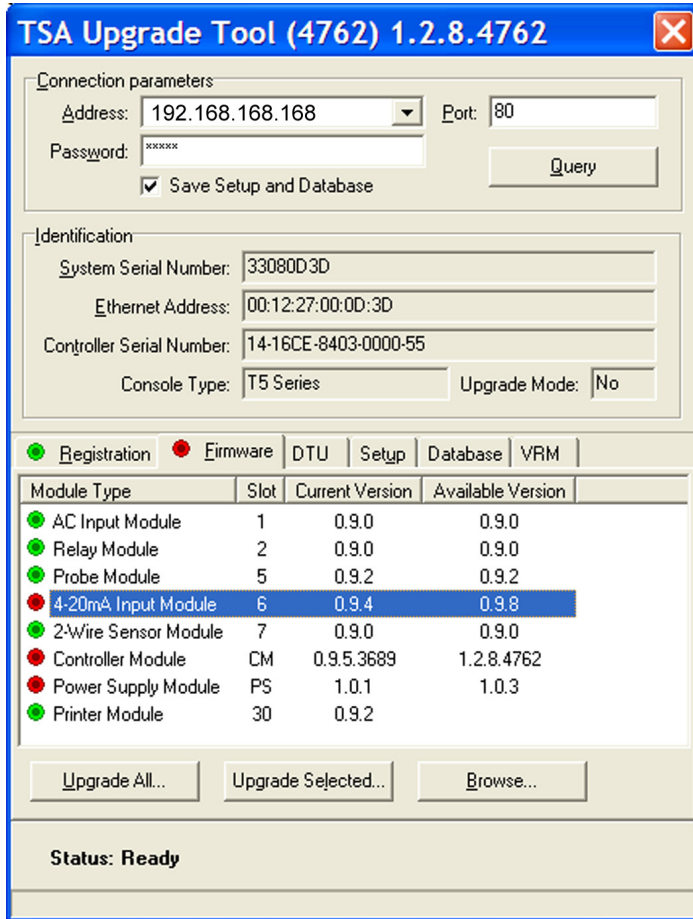
Under the registration tab you will see all available options for the tank gauge console.

“Current” will either have a yes or no. If there is a yes, the console has that specific option already installed. If no, then the option is not installed on the console.

If the TSA Upgrade Tool was received in response to an order for a new Software Option, the “Available” column will list the purchased option as yes. For example, if your console does not have SCALD Testing, the “Current” entry for SCALD testing will have NO and the “Available” column will state YES (If the SCALD option has been purchased).

Firmware Tab

The Firmware Tab is where software revision upgrades will be located. Clicking on the Firmware Tab will show the following information:



Module Type: Shows the modules located in the console that you are connected to. The information here will differ depending on the configuration of the particular console you are connected to (The Colibri console will only show the Controller Module).

- A green button next to Module Type indicates that this module currently has the latest version of software installed.
- A red button next to the Module Type indicates that this module does NOT currently have the latest version of software installed. This can be verified by comparing the Current Version with the Available Version numbers.

Slot: Is the physical location of the module in the console.

Current Version: Shows the version that is currently on the module in the console that you are connected to.

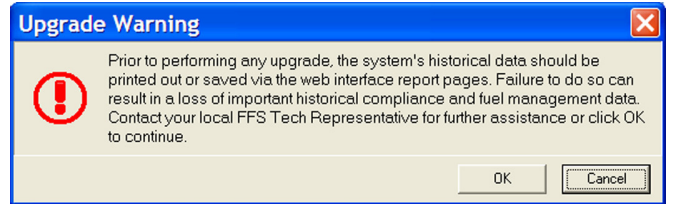
Available Version: Lists the latest released versions of software available to upgrade the software on the console.

Upgrading Firmware Steps

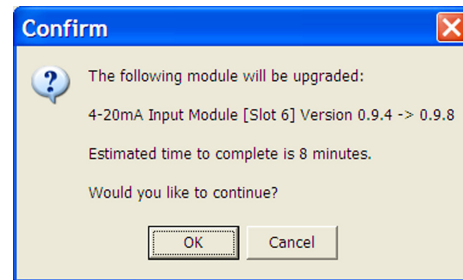
Assume as an example we want to upgrade the 4-20mA Input Module. The console currently shows version 0.9.4 installed and version 0.9.8 is available.

Select the Upgrade Selected button after highlighting the specific module to be upgraded.

For the example we would highlight the 4-20mA Input Module and click the upgrade selected button. You will be prompted with this warning.



Make sure historical data is saved. Then click OK. This will bring up the confirmation screen.



Notice the Estimated time to complete, do not restart your computer or console without allowing enough time for the upgrade to complete.

Click OK to continue the upgrade process.

The bottom of the TSA Upgrade tool will show the status of the upgrade process. There are three steps in the upgrade process:

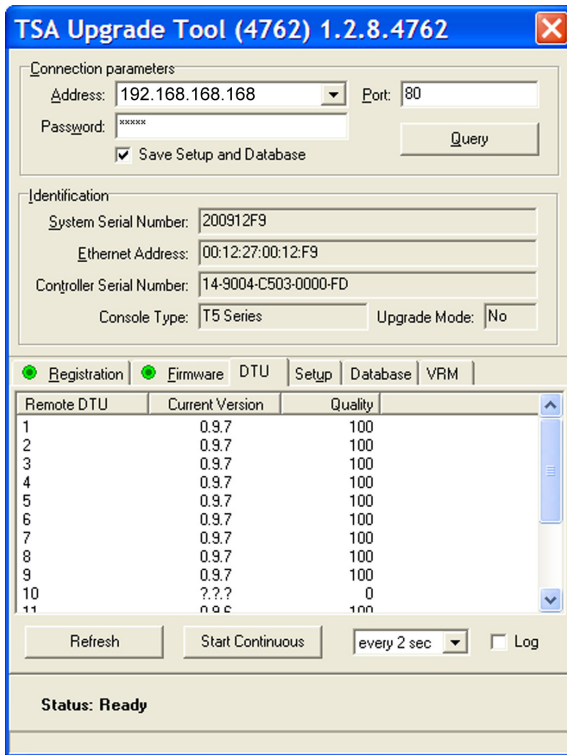
- “Upgrading (*module name*) Module” is the first step and will take the most time
- “Rebooting” is the second step in the upgrade process. This step is rebooting the console.
- “Ready” is an indication that the console has been upgraded and rebooted and has returned to normal operation.

Important Notes:

- **We recommend that each module be upgraded individually. Do not use the Upgrade All Button.**
- **Upgrade the Controller Module first and then the Power Supply Module second, followed by the remaining modules.**

DTU Tab

The DTU tab is used for logging DTU signal quality only. The output for the data log will be posted in a different folder for each specific Controller Serial Number under \ My Document \ TSA Upgrade Tool with a filename of DTU Status Log.



Refresh will display the last DTU signal quality status data.

Start Continuous will stream the data.

Append to Log will begin logging the data.

Setup Tab

The setup tab is used to manually and automatically download the system setup. The TSA Upgrade Tool will download the setup automatically when you query a specific Controller Serial Number. The setup is saved to a different folder for each serial number in \My Documents\ TSA Upgrade Tool. The upgrade tool will only automatically download the setup file if the folder and file does not already exist. You can manually save the setup at any time you are connected to a console and make a comment about that setup file. It will also be saved in the same folder as the automatically saved setup using a date and time stamp for the file name.

Save will manually save the setup information.

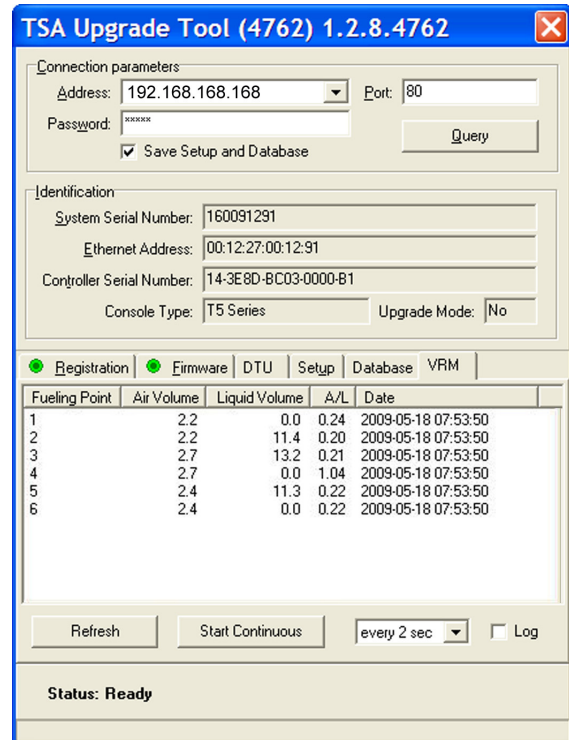
Restore will upload the highlighted setup into the console.

Edit will allow you to edit the comment for the highlighted setup.

Delete will remove the highlighted setup.

VRM Tab

The VRM tab is used to log A/L data for a site. The output for the data log will be posted in a different folder for each specific Controller Serial Number under \My Document\ TSA Upgrade Tool with a file name of VRM Status Log.



Refresh will display the last A/L data.

Start Continuous will stream the data.

Log Transactions will begin logging the data.

Upgrade Notes

- When the T5 console 4-20 mA module is upgraded the lines MUST be relearned if the current version is less than 0.5.3. Lines and SCM containments do not need to be relearned if it is 0.5.3 or greater.
- If you choose to upgrade all of the modules that are available for upgrade allow yourself enough time.
- Do not attempt to cycle power to the gauge or your computer until you see the status ready indication on the TSA Upgrade program.

Recovering a Module (T5 Series Gauge Only)

If one or more of the modules indicates a flashing “run” light during an upgrade the recovery steps below should be used to recover the module.

IMPORTANT NOTE:

If more than one module has the flashing “green” run light, power down the console and remove all but one of the modules. Power the console back up and recover them one at a time. Modules should not be re-inserted with power supplied, power down the unit each time modules are added. The recover program will not find multiple modules to recover.

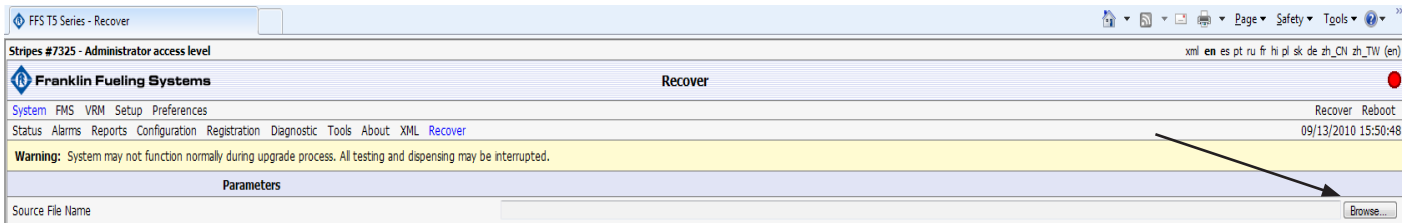
If there are multiple modules flashing green, then all of the offending modules, with the exclusion of one, need to be removed. The one remaining offending module can then be recovered via the following methods. Afterwards reinstall each module one by one recovering each in turn.

You will need to type in “recover” in the address bar after the 2nd forward slash

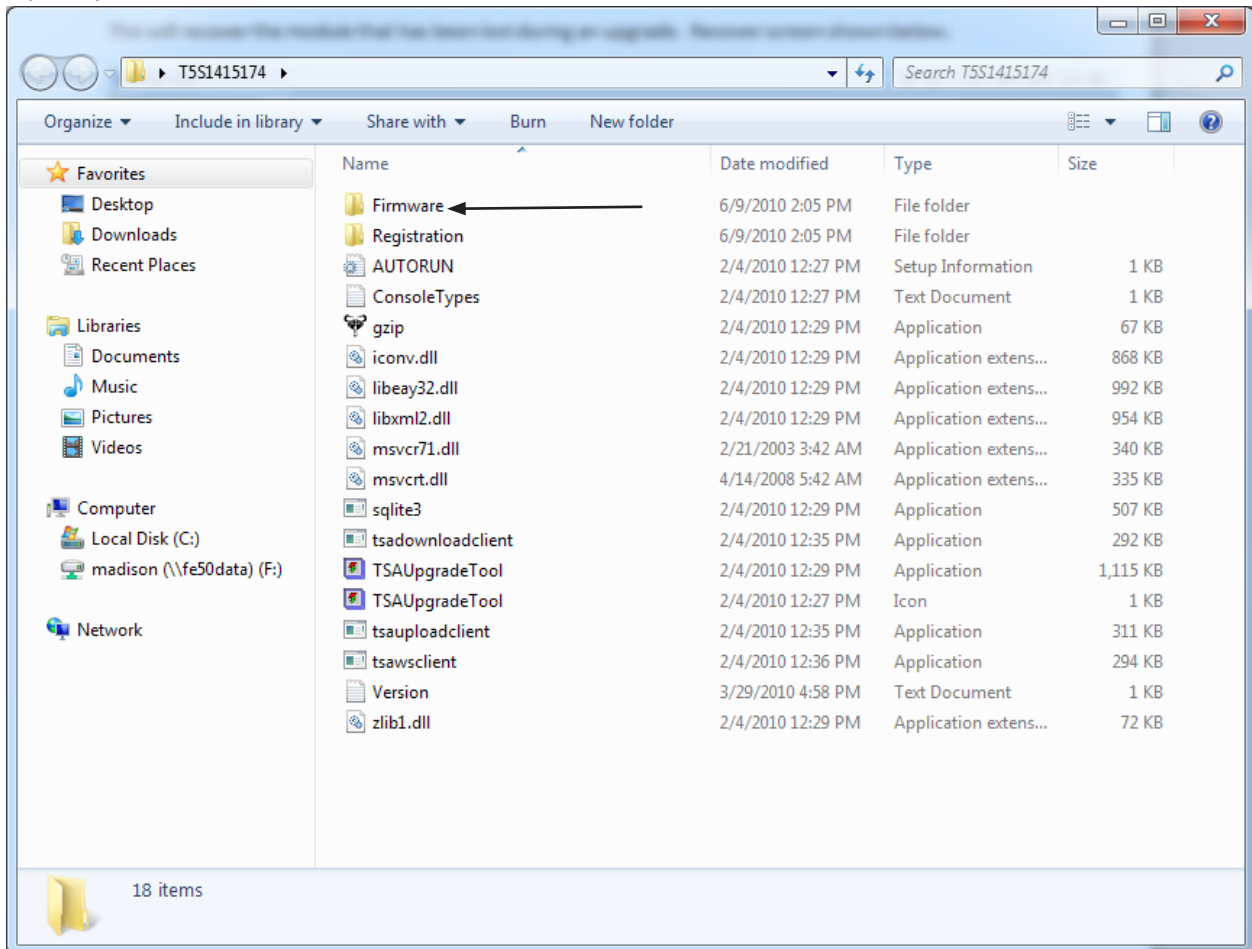
Ex. <http://ip address/recover>

This will recover the module that has been lost during an upgrade. Recover screen is shown below.

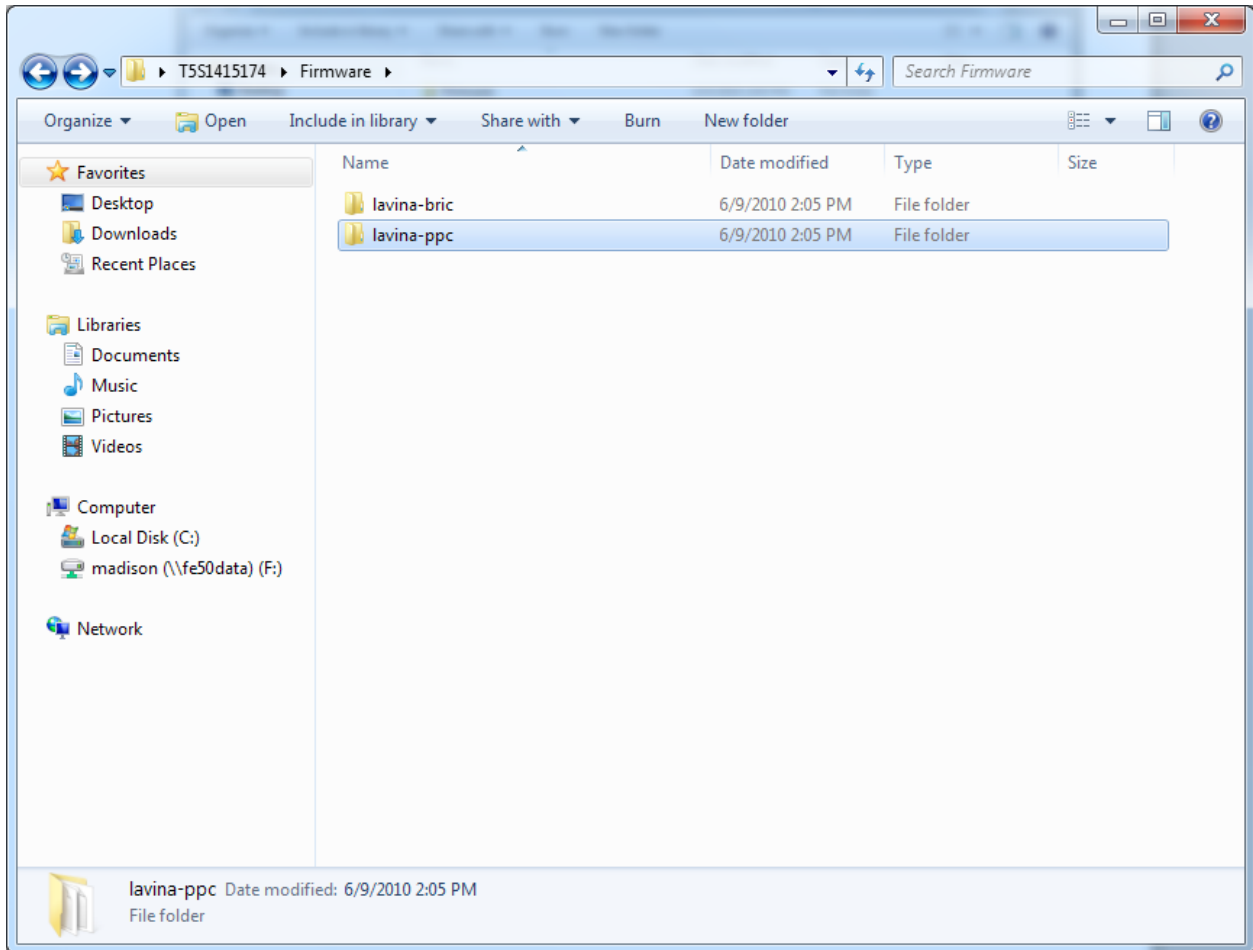
1. Click the browse button.



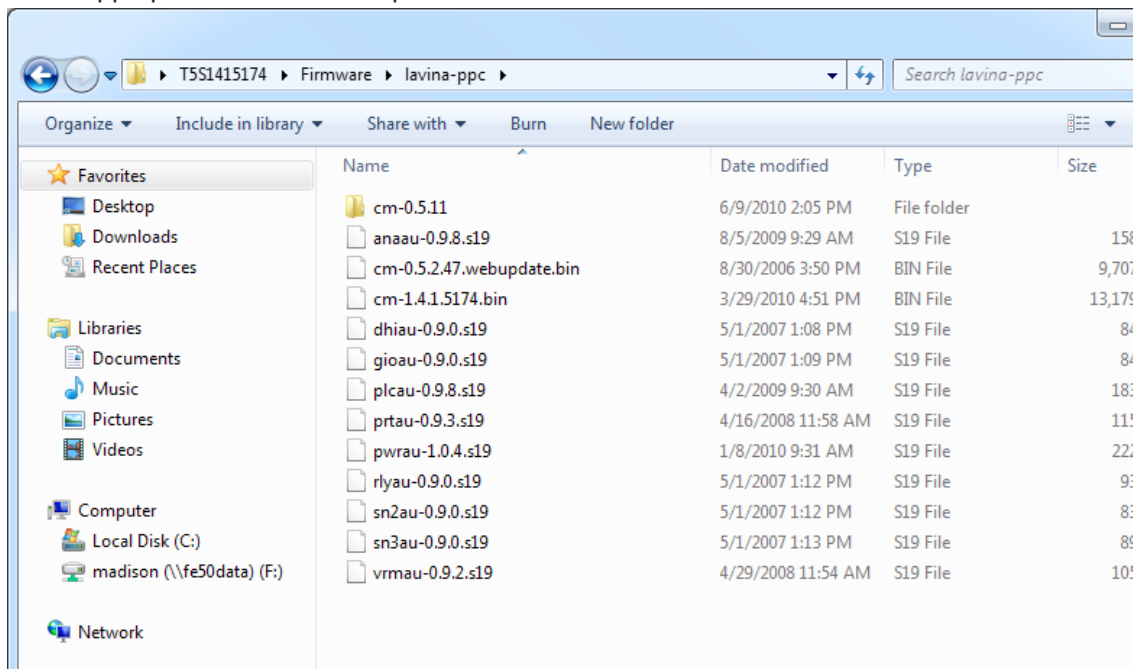
2. Open the software version folder labeled T5Sxx (xx = software version).
3. Open up the Firmware folder



4. Open up the lavina-ppc folder



5. Upload the appropriate file that corresponds with the module that needs to be recovered.



NOTE: Depending on what software version you downloaded, some software versions referenced below may change. The latest version of software is always available online at www.franklinfueling.com

anaau-0.9.8.s19 = 4-20ma Module (both intrinsically safe and explosion proof)

cm-1.4.1.5174.bin = Controller Module

dhiau-0.9.0.s19 = AC Input Module

gioau-0.9.0.s19 = Input/Output Module

plcau-0.9.8.s19 = Display Module

prtau-0.9.3.s19 = Printer Module

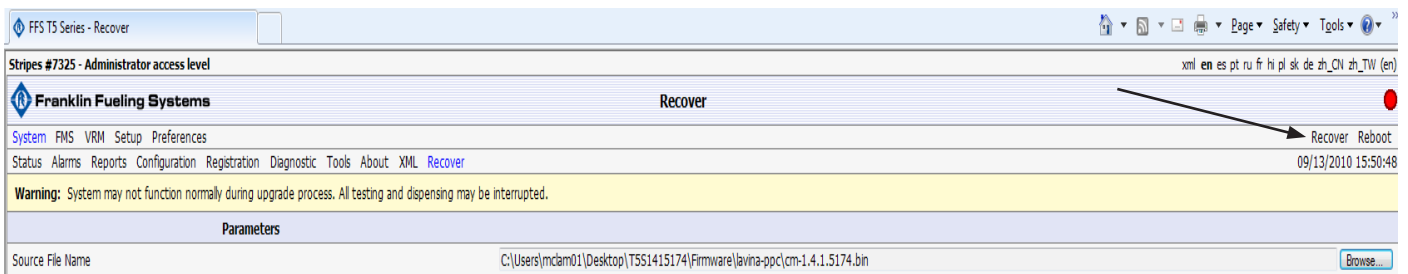
pwrau-0.9.8.s19 = Power Supply Module

rlyau-0.9.0.s19 = Relay Module

sn2au-0.9.0.s19 = 2 Wire Sensor Module

sn3au-0.9.0.s19 = 3 Wire Sensor Module

vrmau-0.9.2.s19 = Probe Module



Select the corresponding file and then click recover in the **upper right** hand side on the screen next to reboot.

This will recover the module and the run light will stop blinking and return to solid once complete. Recover process per module will take the same amount of time as an upgrade so be patient and do not stop communication prior to recovering.

If you have questions about this procedure, contact Franklin Fueling Systems Technical Support at 800-984-6266.

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