

Alert Technologies Tank Explorer 2010 v1.10.0.0 and USB Ullage Instructions

These instructions are intended as a general instruction to help install the Tank Explorer 2010 v1.10.0.0 and the USB Ullage on the same computer. The user will need to adjust the standard installation of the Tank Explorer program since the two programs were designed to be independent programs.

Tank Explorer 2010 v1.10.0.0 Installation

1. If a previous version of Tank Explorer is installed on the computer, it must be removed before starting the installation. Go to the windows "Start" menu and select "Control Panel". Select "Programs" and find "Tank Explorer 2010" in the program list. Remove the program by selecting it.
2. The program can be installed from the computer's hard drive or an Installation DVD:
For the Download: If you downloaded the file "Alert 2010 v1.10.0.0.zip" from the Alert Technologies website it needs to be extracted before using it. Using windows file manager find your downloaded file and right click the mouse and select "Extract All". It is suggested you create a new directory on the C: drive to save the extracted files. Creating a new folder makes it easier to find later.
For the DVD: Insert the Alert Technologies Tank Explorer 2010 v1.10.0.0 DVD-Rom.
3. Using windows file manager open the file named "Setup TankExplorer2010.exe".
4. At the "Tank Explorer Setup" dialog box select "OK".
5. When the "Tank Explorer Setup: Installations Options" dialog box opens, select "Install NI Drivers" and "Install Tank Explorer 2010" and hit the "Install" button.
6. Select "OK" at the notification box "When the NI installation is done, do not restart the machine".
7. When the "NI-DAQmx 9.2.1" asks for the installation directory do not change the default directory, Select "Next".
8. Alert Technologies recommends using a "Typical" installation.
9. Do not allow program updates. This may affect the Alert Technologies software. Then select "Next".
10. Select "I accept the License Agreement" for National Instruments, then hit the "Next" button.
11. Select "I accept the License Agreement" for Microsoft, then hit the "Next" button.
12. If no changes need to be made, hit "Next" to start the installation process. This part can take 30 minutes or more. At the "Installation Complete" message select "Next".
13. When the NI-DAQmx 9.2.1 installer asks, select "Restart Later".
14. The "Tank Explorer" program will now start to install. When setup wizard asks, hit the "Next" button.
15. At the "Select Installation Folder" use the default location and "Everyone", then select "Next".
16. Select "next" at the "Confirm Installation" dialog box. When the "Installation Complete" is displayed select "Close".
17. At the "Tank Explorer Setup" prompt, select "Yes" to reboot the system.
18. After the computer reboots plug in the "Alert Technologies High Speed USB Carrier" into an available USB port. The computer will install the drivers for the USB device automatically. Another restart may be required at this time.

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19. After the computer restarts plug the “High Speed USB Carrier” into an available USB port.
20. Windows will find the new device and install the drivers for it.
21. Open the “National Instruments” Program in Program Files and click on “Measurement & Automation”.
22. Click on “Devices and Interface”, highlight the “NI USB-9237 xxx”. The flag will turn green when the Signal Conditioner is recognized. Close the National Instruments Program.
23. Open The Tank Explorer 2010 Program and click on hardware. Click on Channel “0” to open the channel setup window.
24. At the “Physical Channel” window hit the down arrow and click on “dev xxx 0”. Select “Swap Units” to determine Liters or Gallons, when finished click “Start”.
25. Now plug a LoadCell into channel “0”. The load on the LoadCell will be displayed in the black window. If the reading is 123.456xxx the LoadCell was not recognized. Go back to step 22. A number that changes indicates the load on the LoadCell should be displayed. Click on “save”
26. Click on “Hardware” and repeat steps 23 through 25 for channels 1, 2 and 3.
27. Tank Explorer 2010 is complete.

USB Ullage Instructions

Use the following step by step instructions to install the Alert Technologies USB Ullage program. You will need to restart your computer during this process. Please finish other work and close all other programs before starting the software installation. Performing any steps out of this order will make the installation more difficult.

1. Install the CD-ROM or the downloaded file.
2. Open the folder named “Alert USB Ullage”. Run “setup.exe”.
3. At the “Ullage Setup Wizard” dialog box, select “Next”.
4. At the “Select Installation Folder” dialog box, select “Next”. If you change the directory from the default location it will make future troubleshooting difficult.
5. At the “Confirm Installation” dialog box, select “Next”. For Windows 7 only: at the Windows “User Account Control” Dialog box select “Yes” to allow the installation program to run.
6. At the “Installation Complete” dialog box, select “Close”.
7. On the Desktop there are two new icons, “Ullage” and “InstaCal Installer”. Double click on the “InstaCal Installer” icon. For Windows 7 only: at the Windows “User Account Control” Dialog box select “Yes” to allow the icalsetup.exe program to run.
8. At the “Win-Zip Self-Extractor” dialog box, select “OK” for the program to install.
9. At the “Win-Zip Self-Extractor – icalsetup.exe” dialog box, select “Setup” to continue the installation.
10. When the “InstaCal for Windows – InstallShield Wizard” Dialog box opens, Select “Next”.
11. When the “InstaCal for Windows – InstallShield Wizard” Dialog box asks for a “Destination Folder”, Select “Next”. If you change the directory from the default location it will make future troubleshooting difficult.
12. When the “InstaCal for Windows – InstallShield Wizard” Dialog box asks “Ready to Install the Program”, Select “Install”.
13. When the “InstaCal for Windows – InstallShield Wizard” Dialog box says “Installation Wizard Completed”, Select “Finish”.

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14. The “InstaCal for Windows Installer Information” will ask you to restart your computer. Restart your computer before continuing.
15. Delete the “InstaCal Installer” icon. It will no longer be needed.
16. Plug in the Alert Technologies USB Ullage Cable. This is the box with an USB cable on one end and a 37-pin connector on the other end. You do not need the Sonde or other cables at this time. Windows will automatically find and install the hardware drivers at this time. Windows will only notify you of the hardware installation the first time the USB cable is plugged into the computer.
17. Select the “Start” menu. Open “All Programs”. Find the folder for “Measurement Computing”. The program “Instacal” should be listed. Start the program “Instacal”.
18. The “InstaCal” program dialog box opens. “InstaCal” should open a new dialog box called “Plug and Play Board Detection”. The program should detect a board named “USB-1408FS (Serial# XXX)”. If the Plug and play detection does not appear close the program. The most common reason for not detecting the board is Windows has disabled the device because the user plugged it into the computer too soon.
19. Select “OK” at the “Plug and Play Board Detection” dialog box.
20. Verify the PC Board list only contains “Universal Serial Bus”. The only item in the list should be: “Board#0 – USB-1408FS (serial# XXX)”. Delete any extra boards. The “USB-1408FS (serial# XXX)” must be listed as board #0, if it is not, change it to board #0. If the list is correct close the “InstaCal” program.
21. For Windows7 installations only: The Ullage program must be run in Windows XP SP3 compatibility mode to save test data. If the “Service Pack 3” has not been installed, please update the PC before continuing. To set the program in compatibility mode, first right click the Ullage icon. Select “Properties” from the bottom of the list. In the “Properties” dialog box, go to the “Compatibility” tab. On the “Compatibility” tab, select the box marked “Run this program in Compatibility mode for”. Set the compatibility mode selection to “Windows XP Service Pack 3”. Select “OK” to save the change and close the “Properties” dialog box.
22. Open the “Ullage” shortcut on the computer desktop.
23. To test if the Ullage program can find the device select the “Reference” tab. If you have a signal in the “Line In” window the software is installed correctly. If the “Line In” window says “Analog input board #0 not installed” the hardware drivers did not install correctly or the USB cable is unplugged. Check the “InstaCal” program board list again to see if the board is listed.