

# Vantage Pro2 Updater

## User's Guide

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### Vantage Pro2 Updater Overview

The Vantage Pro2 Updater allows you to update the firmware in a Vantage Pro2 console via the expansion port used by the WeatherLink data logger. The Updater can be powered by a 5 Volt Vantage Pro AC-power adapter or a 9V battery. One 9V battery provides over 20 hours of operation.

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**Note:** Do not use the Vantage Pro2 Updater to update an original Vantage Pro console! The Vantage Pro 2 Updater is incompatible with the original Vantage Pro.

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### Updating the Vantage Pro2 Console Firmware

These are the basic steps involved in using the Updater to reprogram the firmware in a Vantage Pro2 console:

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**Note:** If you are using WeatherLink software with your Vantage Pro2 weather station, be sure to download the weather data into your computer before beginning this procedure.

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1. Press DONE and the DOWN arrow [-] on your console to enter Setup Mode. This will preserve the time and other settings on your console.
2. Remove power from the console by unplugging the AC power adapter and removing the batteries. See you Console Manual for instructions on how to do this.
3. If a WeatherLink data logger is installed, remove it from the expansion slot in the console.
4. Turn the Vantage Pro2 Updater on. The Status LED is GREEN. If it shows another color, see the Status LED Summary Table.
5. Insert the Link Program Adapter (See Figure 2) into the console expansion port. See Figure 1 for location of port. It's the same port used by the WeatherLink data logger.
6. Press the Start Button on the Updater. The LED starts flashing YELLOW.
7. When the Updater is done programming, the LED turns GREEN and you will hear 1 beep. A RED LED indicates a problem. See the Status LED Summary Table and the Troubleshooting Notes for more information.
8. Unplug the Updater from the console.
9. If you have a WeatherLink data logger, plug it into the console.
10. Restart the console by replacing the batteries and/or connecting the AC power adapter.
11. Check the release notes for the version of firmware you just installed. You may have additional steps to perform in order to complete the update.

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## Status LED Summary Table

**Table 1:**

<b>LED COLOR</b>	<b>UPDATER STATUS</b>	<b>ADDITIONAL INFO</b>
Solid Green	The Updater is ready.	If after programming, it means everything programmed ok.
Solid Red	The target flash did not program correctly.	If just after the Start button is pushed, the Updater is not talking to the target at all.
Solid Red	If this happens when the updater has just been turned on, the battery is low.	
Flashing Yellow	Target flash pages for firmware are being programmed or verified.	
Flashing Red	The firmware update failed verification.	If the condition repeats, the Updater flash memory may be corrupt. Reload the firmware into the VP Updater.

### Troubleshooting Notes

On power up, the Updater beeps twice and sequences the colors of the LED. When the LED is GREEN it is ready to use. The first beep indicates the processor is running. The second beep means the updater is ready to update console firmware.

- If you do not hear a beep after powering up, the battery is dead or something is wrong with the Updater.
- If, after pressing the Start button the LED does not change to flashing YELLOW but instead beeps twice and goes to RED, the Updater cannot talk to the console. Check connections and press Start again.
- If there is a problem in programming the status LED will be solid RED.
- If the console did not program correctly, you can push the Start button to try to program it again.
- If the programming is not verified, the updater will beep three times.

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Note: The Vantage Pro Updater sends diagnostic messages through its serial port that may be helpful if the operator is puzzled about what is going on. These messages can be viewed in PROCOMM or HYPERTERMINAL.

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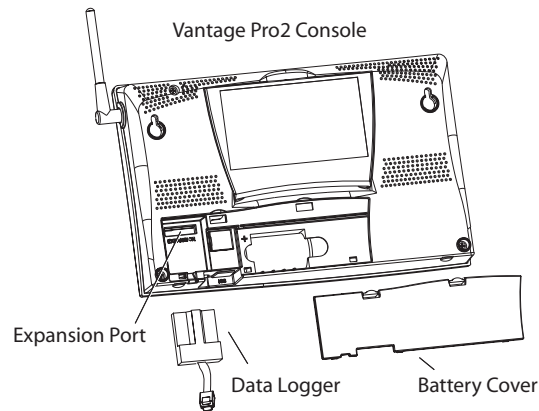


Figure 1. Data Logger and Console

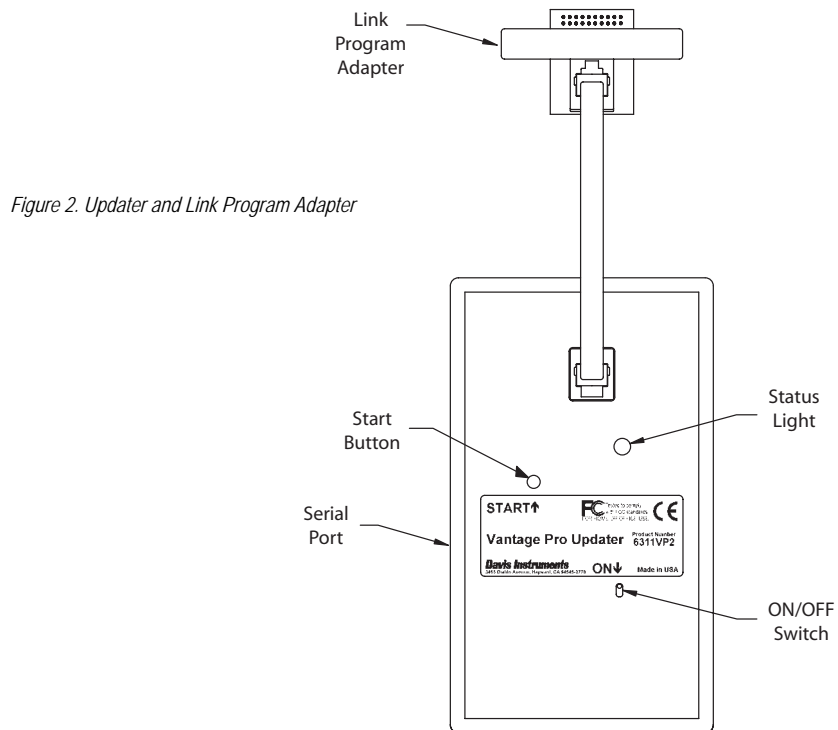


Figure 2. Updater and Link Program Adapter

## Updating the Updater Overview

The Updater software (updater.exe) allows you to load new versions of firmware into the Updater. The firmware image is stored in a file named flash.bin and can be downloaded from the Support section of our website: [www.davisnet.com](http://www.davisnet.com).

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A PC is required to install new versions of firmware on the Updater. The installation is done through a serial port at 19,200 baud using the Updater software provided by Davis.

### **Using Updater Software to Update the Firmware on the Updater**

1. Make sure the flash.bin file is in the Updater software directory before you start the program.
2. Connect the included serial cable to the Updater's serial port (see Fig. 2). The other end of the cable connects to the serial port on your computer using the included serial port adapter.
3. Turn the VP Updater ON using the ON switch (see Figure 2).
4. Start the Updater software.
5. The software should detect the Updater on one of your serial ports.

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**Note:** If the Updater Software doesn't detect the Updater, check all the connections and make sure battery is good or check that the AC-power adapter is connected and receiving power.

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6. When the software asks, "LOAD NEW FIRMWARE TO UPDATER? (Y or N)":
  - Press "Y" to update the firmware in the Updater.
  - You can press "N" to cancel the operation.
7. The program will load the new firmware into the Updater and double check that the firmware loaded correctly.
8. Type 'Q' to quit the program. You can then close the window.

### **Contacting Davis Instruments**

**(510) 732-7814** Technical Support, Monday – Friday, 7:00 a.m. – 5:30 p.m. Pacific Time.

**(510) 670-0589** Fax to Customer Service or Tech Support.

**www.davisnet.com** Davis Instruments' website. Check out the Weather Support section.

**support@davisnet.com** E-mail to Technical Support.

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Davis Instruments Part Number: 07395.314

Vantage Pro2 Updater Manual

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This product complies with the essential protection requirements of the EC EMC Directive 89/336.



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