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Davis 6510USB

Davis Instruments WeatherLink USB Software

MODEL 6510USB USER MANUAL

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Introduction

The Davis Instruments WeatherLink USB Software, Model 6510USB, provides a powerful interface for connecting your Davis weather station to a personal computer. This system allows for comprehensive data logging, advanced analysis, and convenient sharing of weather information. The data logger seamlessly integrates with Vantage Pro and Vantage Vue consoles or Envoys, ensuring continuous data collection even when your computer is not connected. This manual outlines the installation, operation, and maintenance procedures to help you maximize the utility of your WeatherLink system.



Figure 1: Davis Instruments WeatherLink USB data logger and software packaging. This image displays the physical components of the WeatherLink USB kit, including the data logger module and the software CD/packaging.

1. Setup

Follow these steps to set up your WeatherLink USB Software and data logger:

1. **Install the Data Logger:** The data logger module is designed to fit directly into the back of your Davis Vantage Pro, Vantage Pro2, or Vantage Vue weather station console or Envoy unit. Ensure it is securely seated.
2. **Connect to Computer:** Use the included USB cable to connect the data logger to an available USB port on your computer.
3. **Install Software:** Insert the WeatherLink software CD into your computer's optical drive. Follow the on-screen instructions to install the software. An on-screen walkthrough will guide you through the initial configuration process.
4. **Driver Installation:** During software installation, necessary USB drivers will be installed automatically. If prompted, allow the installation of these drivers.

5. **Initial Configuration:** Launch the WeatherLink software. The program will guide you through setting up communication with your weather station and configuring basic preferences.

2. Operating Instructions

The WeatherLink software offers extensive capabilities for managing and analyzing your weather data:

- **Data Logging:** The data logger continuously stores weather data from your station. You can select storage intervals of 1, 5, 10, 15, 30, 60, or 120 minutes. This data is stored even when your computer is not connected.
- **Data Download and Analysis:** Download stored data to your computer. The software allows you to create graphs, generate summaries, and view current conditions at a glance using the Instant Weather Bulletin. You can graph data on a daily, weekly, or annual basis and view multiple weather variables simultaneously to observe their relationships.
- **Reporting:** Generate various reports, including Weather Watcher reports in NOAA National Climatic Data Center format. Special reports on heating degree days, cooling degree days, and fuel-oil demand are also available. With optional sensors, you can view reports on evapotranspiration, leaf wetness, soil moisture, soil temperature, sunburn risk, and solar energy.
- **Data Sharing:** Share your weather data with others. You can contribute to the National Weather Service's improved forecasting models by sending your data to the Citizen Weather Observer Program via APRS or the Internet.
- **Web Integration:** Create your own weather website or post weather conditions to a Local Area Network (LAN) using the included HTML templates. The software also supports uploading other files, such as images from a webcam, alongside your weather data.
- **Educational Programs:** Participate in the GLOBE program, an international weather-related science program for students supported by NASA and NSF.

3. Maintenance

The WeatherLink USB Software and data logger require minimal maintenance:

- **Software Updates:** Regularly check the Davis Instruments website for software updates. Keeping your software up-to-date ensures optimal performance, compatibility, and access to new features.
- **Data Backup:** Periodically back up your weather data to prevent loss. The software provides options for exporting data.
- **Physical Inspection:** Ensure the USB cable and data logger connections remain secure and free from damage.

4. Troubleshooting

If you encounter issues with your WeatherLink USB system, consider the following:

- **No Data Connection:**
  - Verify that the data logger is correctly seated in the console/Envoy.
  - Ensure the USB cable is securely connected to both the data logger and your computer.
  - Check your computer's Device Manager to confirm the USB device is recognized and drivers are installed correctly.
  - Restart the WeatherLink software and your computer.
- **Software Not Launching/Crashing:**
  - Ensure your operating system meets the minimum requirements for the software version.

- Try reinstalling the software.
- Check for and install any available software updates.

- **Inaccurate Data:**
  - Confirm that your weather station sensors are functioning correctly and are properly calibrated.
  - Ensure the data logger interval settings are appropriate for your needs.

For persistent issues, refer to the official Davis Instruments support resources.

5. Specifications

Brand	Davis Instruments
Model Number	6510USB
Connectivity Technology	USB
Material	Plastic
Special Feature	Data connection and synchronization with computer and internet
Components Included	Cable
Compatible Systems	Davis Vantage Pro, Vantage Pro2, Vantage Vue weather stations
Data Logging Intervals	1, 5, 10, 15, 30, 60, or 120 minutes
UPC / GTIN	011698007271, 611105166777, 054279147805, 015568992384, 396657769309, 042111144822, 066511432365, 021112788754, 853340941744, 750211955230, 012303432990, 956258067336

6. Warranty & Support

Warranty Information: Specific warranty details for the Davis Instruments WeatherLink USB Software (Model 6510USB) are typically provided with the product packaging or can be obtained directly from Davis Instruments or your authorized retailer. Please retain your proof of purchase for warranty claims.
Technical Support: For technical assistance, software updates, or further inquiries, please visit the official Davis Instruments website. Their support section usually provides FAQs, troubleshooting guides, and contact information for customer service.

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