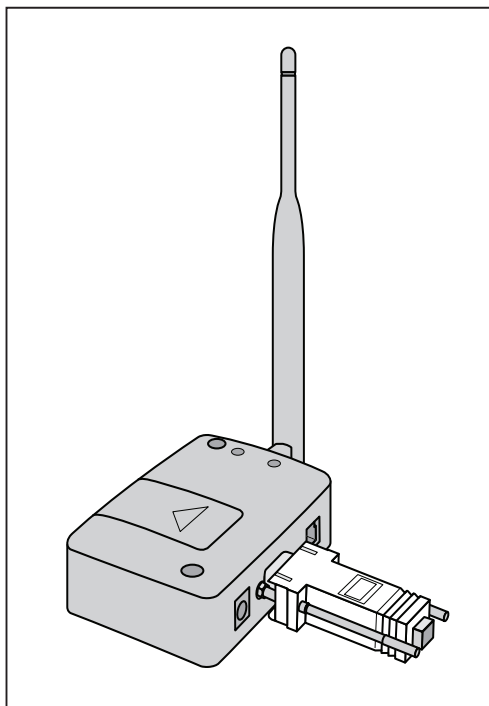




Vantage Connect[™] Retrofit Kit

For Vantage Pro2[™], Vantage Pro2 Plus[™],
Vantage Vue[®] and Weather Envoy[™]

Product number 6626



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Vantage Connect Retrofit Kit

Product Numbers 6626, 6626EU, 6626UK,
6626G, 6626S, 6626SEU

07395.322 Rev. C, June 21, 2012

For use with Vantage Pro, Vantage Pro2, and Vantage Vue Consoles and Weather Envoy.

Vantage Connect™, Vantage Pro®, Vantage Pro2™, Vantage Vue®, WeatherLink® and Weather Envoy™ are trademarks of Davis Instruments Corp., Hayward, CA.

This product complies with the essential protection requirements of the EC EMC Directive 2004/108/EC; Low Voltage Directive 2006/95/EC; and Eco-Design Directive 2005/32/EC > 0.5 watt no-load adapter.

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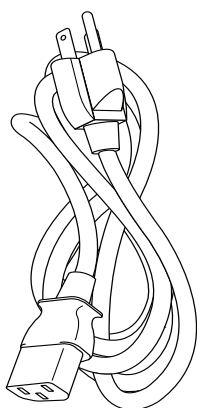
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Welcome to

Vantage Connect Retrofit Kit (6626)

The Vantage Connect Retrofit Kit allows you to upload data from a Davis Vantage Pro[®], Vantage Pro2[™], or Vantage Vue[®] console; or a Weather Envoy[™] to WeatherLink.com through the cellular network. With your own online account and a data plan, you can receive alarm e-mails when preset weather conditions occur, view data online or through a smart phone, or even download data into your PC with the WeatherLink[®] software.

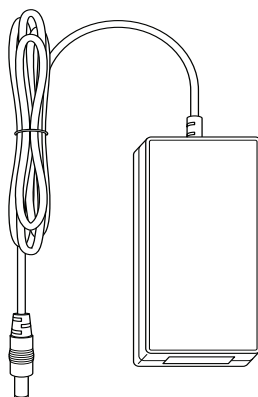
Contents of Package



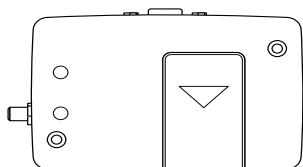
Power Cord
(US Shown)



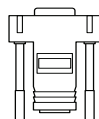
Antenna



Power Supply



Cellular Modem



**Vantage Connect
Adapter**

The Vantage Connect Retrofit Kit is available in six different packages: US, EU, UK, G, S, and SEU (depending on country of use).

The package contains the following:

- **Cellular Modem**
- **Antenna**
- **12V 1.5A power supply**
- **Power cord with either a US, EU or UK connector**
- **Vantage Connect Adapter**

Hardware Requirements

- Davis weather console, either Vantage Pro, Vantage Pro2, or Vantage Vue; or Weather Envoy (all sold separately)
- WeatherLink software with serial data logger (product number 6510SER, not included)
- GSM/GPRS cellular network coverage in the area

Before You Install Your Retrofit Kit

1. Backup your data.

The Vantage Connect Retrofit Kit will upload data to the Weatherlink.com server in intervals. The update interval will be determined by the purchased data plan. For example, if you are on a 5-minute plan, your upload interval will be every 5 minutes. If the archive interval of your weather station is set to a different rate than the upload interval of your data plan, the Vantage Connect Retrofit Kit will change the archive interval to match the upload interval and clear all the archive records. If the archive interval is the same as the upload interval, the Vantage Connect Retrofit Kit will not clear any data in the weather station.

Before using the Vantage Connect Retrofit Kit, check to see what archive interval has been set in your WeatherLink software (Setup -> Set Archive Interval). If the archive interval is not the same as the data upload interval, you should first download the data to the WeatherLink software before connecting the weather station to the Vantage Connect Retrofit Kit to avoid losing data.

Note: If you are exchanging a USB data logger for a serial data logger, see Appendix A: Switching Data Loggers (page 10).

2. Check weather station time and date.

Make sure the time and date on the weather station (console or Envoy) is set correctly before connecting the station to the Vantage Connect Retrofit Kit. If the time is not set correctly, use the key pad (console) or WeatherLink software (Envoy or console) to set the correct time.

Tip: To change the time on a console or Envoy, see your instruction manual.

3. Purchase a Vantage Connect Service Plan.

Vantage Connect Retrofit Kit requires an annual service plan. Choose #6632, 6634, or 6636 in the version appropriate for your region (US, A, B, or C). Each plan offers a different update interval (5, 15, or 60 minutes). For more information see your Davis reseller or purchase a plan during your registration process on WeatherLink.com.

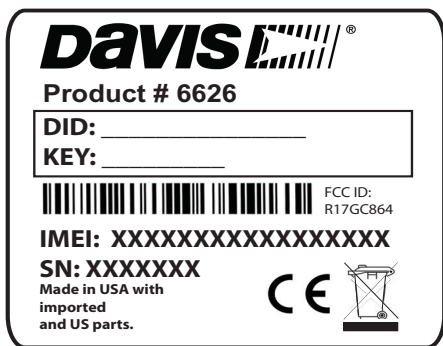
After purchase, you will receive an e-mail with an Activation Code that you will use to register online.

4. Register Online

Note: It is important to register your Vantage Connect Retrofit Kit online and wait 5 to 10 minutes BEFORE you power it up to avoid a delay in uploading data. If you already powered up before registering, remove power from the retrofit kit, register, then repower.

When you receive the e-mail with the Activation Code, follow the instructions in the e-mail. (Or, go to www.weatherlink.com; click on **Register**. Select the **Vantage Connect** option.)

Enter the DID and KEY located on the sticker on the Retrofit Kit, and the Activation Code received in the e-mail.

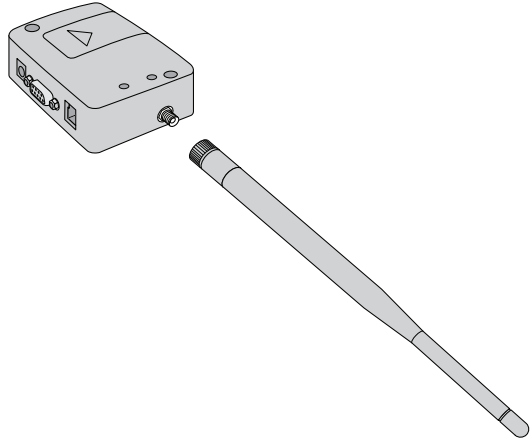


Create and enter a user name and password, and enter your e-mail address to create a new user account. The first time you log in you will enter your profile information.

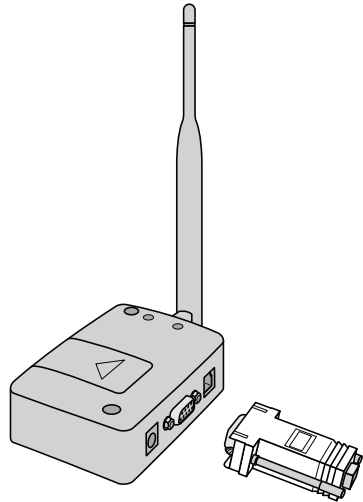
Installation

Set Up Modem and Antenna

1. Attach the **antenna** to the Vantage Connect Retrofit Kit by screwing it into the threaded receiver on the **cellular modem**.



2. Adjust the antenna orientation vertically and connect the **Vantage Connect adapter** to the **cellular modem**.



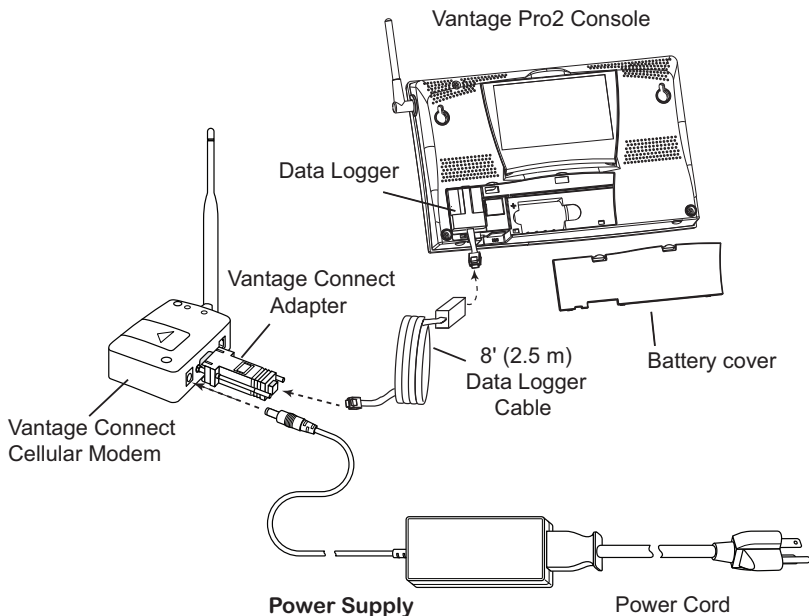
Connect to the Weather Station

1. If you have not already set up your console or Weather Envoy, do so first. (See the instruction manual that came with your console or Envoy.)
2. Make sure the data logger is installed in the console or Envoy. (See your *WeatherLink Getting Started Guide* for more information on installing the data logger.) Attach the 8' (2.44 m) data logger serial cable (sold with the WeatherLink Serial Data Logger) to the data logger.
3. If you wish to set alarms, do so now. You may set alarm thresholds for weather conditions through the WeatherLink software or in the console (for Vantage stations). When an alarm condition occurs, the current data will be sent to the server. Up to ten alarm conditions will be sent to the server per day (from mid-night to midnight). When an alarm condition occurs, the “Summary” page on WeatherLink.com shows a snapshot of the weather condition when the alarm is activated.

Note: See “Setting E-mail Alerts” on page 7 for information on how to receive e-mail alerts for alarms.

4. Connect the other end of the data logger serial cable to the **Vantage Connect adapter**.
5. Plug **power cord** into the **power supply** (see illustration below).

Note: Do not power up the Retrofit Kit until after you have registered online.



Note: We recommend using the console's AC power adapter (with battery back-up) when it is connected to the Vantage Connect Retrofit Kit. C-batteries alone will only last 3 months.

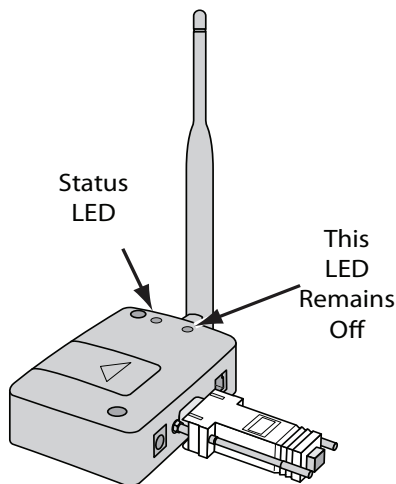
Power Up

Note: It is important to register your Vantage Connect Retrofit Kit online and wait 5 to 10 minutes **BEFORE** you power it up to avoid a delay in uploading data. If you already powered up before registering, remove power from the retrofit kit, register, then repower.

Plug in the **power supply** cable to the **cellular modem** (see the illustration on “Connect to the Weather Station” on page 5) and plug the **power cord** into the AC outlet to power up the Retrofit Kit. When power is applied to the Retrofit Kit, the status LED should start blinking. The LED blinks 0.5 seconds on/0.5 seconds off for about 30 seconds at startup. When it is attempting to log on to the cellular network, the LED blinks 0.5 seconds on/2 seconds off. When it has logged on to the cellular network, the LED blinks 0.1 seconds on/5 seconds off.

The other LED should always remain off.

If cellular coverage is poor, it may take the device much longer to register on the network.



Note: See “My status LED is flashing or always on,” on page 9 for more information on LED behavior.

Upload and Access Data

Once the Retrofit Kit is registered on the network, it will upload the latest data to the server.

- Upon first use, the Retrofit Kit will upload only the latest (current) conditions, not all the previously stored data that may be in your data logger.
- From then on, the Retrofit Kit will upload only new data stored since the last update.

Data is uploaded to the server along with daily, monthly and yearly highs and lows data. The “My Weather” page shows the weather conditions uploaded at the last upload interval.

To access your data online:

1. Go to www.weatherlink.com.
2. Click on **Login** in the upper right-hand corner.

Note: It takes up to 2 minutes for the data received from the Vantage Connect Retrofit Kit to be processed to the web site. For example, if you have a 5-minute update plan, the data received at 12:05 may not appear on the web site until 12:07.

Download Data From WeatherLink Network to PC

You can download your data stored online to your PC through the WeatherLink software. This can be done manually, or you can set up automatic downloads in WeatherLink software. If you choose manual downloads, be aware that the server will store four times the amount of data as your data logger alone. The amount of data stored depends on the update interval of your service plan. Be sure to download within the time period below for your service plan.

<i>5-minute plan</i>	<i>1 month</i>
<i>15-minute plan</i>	<i>3 months</i>
<i>60-minute plan</i>	<i>1 year</i>

To set up a communication link between WeatherLink software and your WeatherLink.com account:

1. In WeatherLink software, under the **Setup** menu, select **Communication Port**. Select **TCP/IP**.
2. Click on **Web Download** and then enter your weatherlink.com user ID and password.
3. Click **OK** to exit.

To set up automatic downloads:

1. In the WeatherLink software, under the **Setup** menu, select **Auto Download**.
2. Choose the station name, then **Add**.
3. Choose how often to download (from once an hour to once a day).
4. Click **Save**.

To manually download:

1. In the WeatherLink software, under the **File** menu, select **Download to download data**.

See WeatherLink software's Help for more information.

Setting E-mail Alerts

You can set up e-mail alerts for console alarm conditions. You will receive an e-mail when the alert conditions begin and another when the alert conditions end. You can receive up to 10 sets of start/stop e-mail alerts per day (midnight-to-midnight) when alarm conditions occur.

To set up e-mail alerts:

1. Log on to your WeatherLink.com page.
 2. Click **E-mail Settings**.
 3. In the **Alarm Summary** box, check the **Enable** box and enter your e-mail address.
-

Using Solar Power to Power the Vantage Connect Retrofit Kit in the Field

You can power the Vantage Connect Retrofit Kit on solar power if needed. Keep in mind that the Vantage weather station or Envoy uses 6v DC and the Retrofit Kit uses 12v DC. Each will need to be powered separately.

Powering a Vantage Pro2 console, Vantage Vue console or Envoy

These receiving consoles require 6v DC. Because of the near constant communication with the Retrofit Kit, the console's backup batteries will not be sufficient to power the console for a reasonable period. You should use either of the following to power your console.

- **Solar Power Kit for Wireless Consoles or Wireless Envoy (#6610)**
Use this kit if you have a wireless console and are in a well-sunlit area with reasonable sunshine.
- **Solar Power Kit for Cabled Consoles or Cabled Envoy (#7707)**
Use this kit if you have a cabled console or any console in a low light or high latitude location.

Powering the Vantage Connect Retrofit Kit

Vantage Connect Retrofit kit electrical specifications:

Voltage: 12v DC

Current: 5-minute plan: 27mA average/1A peak
 15-minute plan: 23mA average/1A peak
 60-minute plan: 21mA average/1A peak

If you plan to use your own solar power kit to power the Vantage Connect retrofit kit in the field you will need a 12v battery with sufficient capacity (see table below) and a solar panel that is at least 10W (20W panel in low light or high altitude conditions).

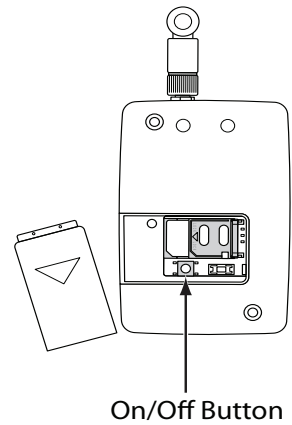
Battery Capacity	Fully Charged Battery Life		
	5-minute plan	15-minute plan	60-minute plan
7 Ah	11 days	13 days	14 days
15 Ah	23 days	27 days	30 days
32 Ah	49 days	58 days	63 days

Visit www.davisnet.com/weather/empowered for more power kit solutions.

Troubleshooting

? *My status LED is not blinking.*

Make sure the power cord is connected. If power is connected and the LED is still off, open the Retrofit Kit and press the **ON/OFF** button shown in the diagram. If the LED is still off, contact technical support.



? *My status LED is flashing or always on.*

The speed at which the LED flashes or blinks indicates specific information. Use the table below to ascertain what the condition is and what to do about it.

ON (seconds)	Off (seconds)	Indicates	What to do
2	0.1	No console detected	Repower console. Check connectors and cables.
0.1	0.1	No cell signal detected	Move to a location with cellular reception.
0.5	0.5	Starting up	Wait for next step.
0.5	1.5	Logging on to cellular network	Wait for next step.
0.1	5	Logged on to cellular network, normal function	No action needed.
Always	Never	System fault	Contact Tech Support

? *No data is being uploaded.*

Make sure status LED is showing normal function, otherwise the device has not registered on the network. Check the serial cable, make sure it is connected to the weather station. Check power to the weather station.

Note: In a Weather Envoy, it will not be obvious that power has been lost.

Appendix A: Switching Data Loggers

To switch out a USB data logger for a serial data logger:

- 1. If you are using a console, enter Setup Mode (press and hold DONE and -).
- 2. Power down the console or Weather Envoy (batteries and AC).
- 3. Unplug the USB data logger; plug in the serial data logger.
- 4. Repower the console or Envoy.
- 5. Check the time and adjust if necessary. Use the console key pad or WeatherLink software (Envoy or console) to set the correct time.

Tip: To change the time on a console or Envoy, see your instruction manual.

Contacting Davis Technical Support

For questions about installing or operating your Vantage Connect Retrofit Kit, please contact Davis Technical Support. We'll be glad to help.

Online	www.davisnet.com See the Weather Support section for copies of user manuals, product specifications, application notes, software updates, and more.
E-mail	support@davisnet.com
Telephone	(510) 732-7814 Monday - Friday, 7:00 a.m. - 5:30 p.m. Pacific Time.

Specifications

General:	
Cellular Bands	850, 900, 1800, 1900 MHz
Operating Temperature	-22° to +149°F (-30° to +65°C)
Storage Temperature	-40° to +185°F (-40° to +85°C)
Current Draw	25mA typical, 1A peak GPRS class 10: 146mA typical
Transmitter Power	2W @ 850/900 MHz (Class 4) 1W @ 1800/1900 MHz (Class 1)
AC Power Adapter	12 VDC, 1.5A peak power 2.1mm barrel jack
Housing Material	Rugged ABS Plastic
Dimensions (width x length x height)	2.6" x 3.75" x 1.2" (66mm x 95.25mm x 30.84mm)
Weight	0.28 lb (127 g)
Certifications: FCC PTCRB CE Carrier	