



Davis EnviroMonitor Cellular Remote Field Monitoring System Configurator 6803

Product Images



Short Description

EnviroMonitor is a revolution in precision agriculture: it gathers intelligence by measuring, monitoring and managing critical field data related to climate, irrigation, and crop production. Add almost any sensor to suit your needs and microclimate. Sensor data is gathered over a secure, self-optimising, self-healing network and is pushed securely to the Cloud via cellular connectivity.

Description

The EnviroMonitor Gateway (DI-6803) collects information from up to 32 Nodes. Each Node can have up to four sensors. The Nodes transmit the sensor data to a mesh parent (either the Gateway or another Node). The Cellular Gateway uploads the data securely to the Cloud via cellular connectivity. From there, the data

can be accessed on your smart devices and computers.

The Gateway is a self-contained, weather-resistant, solar-powered unit. It includes a rechargeable 6-volt backup battery and comes with mounting hardware. Requires an annual service plan and one-time activation fee.

Building an EnviroMonitor system is simple:

1. Add EnviroMonitor Nodes
2. Choose a wireless or cabled Vantage Pro2 weather station sensor suite
3. Choose additional sensors to build your custom sensor network to monitor, measure, and manage the field data that is important to you (also compatible with a growing range of third-party sensors - talk to us for details).

Key Features

- Collects all essential data from EnviroMonitor Nodes and pushes it securely to the Cloud server via LTE cellular connectivity.
- Access your data on your phone, tablet and computer on WeatherLink.com, WeatherLink mobile app and the ag-focused Mobilize app, 24/7.
- Add up to 32 Nodes with up to four sensors each and any cabled Vantage Pro2 sensor suite; choose from 100+ Davis and third-party sensors.
- 5-watt solar panel provides ample power; rechargeable 6-volt provides backup.
- On WeatherLink.com, set alarms and email notification for high and low weather conditions.
- Self-contained in a weather-resistant shelter that protects electronics.
- Add 8 dBi Long-Range Antenna (7678) to get communication range of up to 10,000'/3,000m.
- EnviroMonitor App walks you through easy installation using your phone's Bluetooth function.

Requires a one-time hardware activation fee and an Annual Service Plan.

The 6803 replaces the 6801 and 6622SOV, which have been discontinued.

If you have Wi-Fi or Ethernet coverage, you may be interested in the [EnviroMonitor IP Gateway](#).

Want Some Helpful Advice?

Call **01243 558280**, click on the webchat box below, or fill out our [contact form](#).

FAQs

How does the Davis EnviroMonitor Gateway work?

The first thing you need to do is to decide where and what type of data you want to collect. You need to decide how many sensors you need and where they should be placed. Once your system arrives, you should install the EnviroMonitor app on your smartphone. You can find it in the [Google Play Store](#) or [iOS App Store](#). The app will guide you through setting up the system and connecting it to [WeatherLink.com](#). It will also instruct you on connecting the Nodes to the Gateway and installing your sensors on the Node.

The instructions walk you through everything you need from confirming your cellular signal strength at intended node sites to finding the optimal sites for placing your nodes. You will also receive a user's manual with diagrams and easy-to-follow step-by-step instructions. The manual is also available [here](#) on the Davis Instrument website.

What can I use to access the data from my EnviroMonitor Gateway?

You can access your data in four different ways. You can use your phone, tablet, or computer to view it via

WeatherLink.com. The WeatherLink mobile app lets you access the data from anywhere you have a cell phone signal. You can also use the Mobilize app that is geared toward agricultural operations and crop management.

Where can I use my Davis EnviroMonitor Gateway?

One of the best features of this system is that you can use it almost anywhere there is a cellular connection. You do not need to house it in a building or be near a power outlet. The EnviroMonitor Gateway comes with a 5-watt solar panel that provides sufficient power to operate it for a long time in addition to a 6-volt rechargeable battery for backup. It is also housed in a self-contained weather-resistant shelter to protect the electronics. If weather conditions should become unfavorable, you can have the system send you an email to let you know.

Additional Information

Country of Manufacture	United States
Brand	Davis Instruments
Explanation	<p>General</p> <p>Operating Temperature -40° to +140°F; -40° to +60°C</p> <p>Charging Temperature -4° to +120°F (-20° to +49°C)</p> <p>Storage Temperature -40° to +140°F; -40° to +60°C</p> <p>Current Draw 25mA typical, 1A peak</p> <p>Housing Material Rugged ASA Plastic</p> <p>Dimensions (width x height x depth) 13.75 X 10 X 4.15 inches (34.9 X 25.4 X 10.5 cm)</p> <p>Weight 8.50 lbs. (3.86 kg)</p> <p>Battery</p> <p>Type 6 volt, 12 Ah, gel cell with quick disconnect 0.250" x 0.032" (6.35 mm x 0.81 mm) tabs</p> <p>Replacement Part Number 7011.025</p> <p>Charging Temperature -4 to +120°F; -20 to +49°C</p> <p>Solar Panel (@ 1000w/m2)</p> <p>Nominal power 5W</p> <p>Voc 21.6V</p> <p>Isc 301mA</p> <p>Vmp 18V</p> <p>Imp 277mA</p> <p>Barometric Pressure Sensor Data (internal sensor)</p> <p>Resolution and Units 0.001" Hg, 0.1 mm, 0.1 hPa, 0.1 mb. (user selectable)</p> <p>Range 16.00" to 32.50" Hg, 410 to 820 mm Hg, 540 to 1100 hPa or mb</p> <p>Elevation Range. -1500' to +15,300' (-460 m to 4670 m)</p> <p>Uncorrected Reading Accuracy ±0.03" Hg (±0.8 mm Hg, ±1.0 hPa/mb) (at room temperature)</p> <p>Sea-Level Reduction Equation Used Altimeter</p> <p>Equation Accuracy ±0.01" Hg (±0.3 mm Hg, ±0.3 hPa/mb)</p> <p>Elevation Accuracy Required ±10' (3m) to meet equation accuracy specification</p> <p>Trend (change in 3 hours)</p> <p>Change ±0.06" (2.0 hPa/mb, 1.5 mm Hg) = Rapidly</p> <p>Change ±0.02" (0.7hPa/mb, 0.5 mm Hg) = Slowly</p> <p>Range for Rising and Falling Trend Alarms -0.255 to 0.255" Hg (-6.5 to 6.5 mm Hg, -8.6 to 8.6 hPa/mb)</p> <p>Update Interval. 1 minute</p>
Ideal For	Professional, Agronomy
Typical applications	Environmental (Outdoor), Field Research, Weather Monitoring
Measurements	Barometric Pressure, CO2, Dew Point, Evapotranspiration, Flow, Humidity, Leaf Wetness, PAR/Quantum Light, Pressure, Rainfall, Salinity, Soil Moisture, Solar Radiation, Temperature, UV, Water Temperature, Weight, Wind Direction, Wind Speed

Additional Options

Select number of Nodes	EnviroMonitor Node (DI-6810)
Select a weather sensor suite	Cabled Vantage Pro2 Sensor Suite (DI-6322C)
	Cabled Vantage Pro2 GroWeather Sensor Suite (DI-6820C)
	Cabled Vantage Pro2 GroWeather Sensor Suite - Daytime Fan (DI-6344C)
	Cabled Vantage Pro2 Plus Sensor Suite (DI-6327C)
Select optional temperature sensors	Air/Water/Soil Temperature Probe (Stainless Steel) with RJ Connector (DI-6475)
	Air/Water/Soil Temperature Probe (Plastic) with RJ Connector (DI-6477)
	Temperature/Humidity Sensor with 24-hour Fan-Aspirated Radiation Shield (DI-6832)
	Temperature/Humidity Sensor with 24-hour Passive Radiation Shield (DI-6830)
	RJ Connector node adaptor (DI-6860)
Select optional additional sensors	AeroCone Rain Collector with Vantage Pro2 Pole Mount Base (DI-6466M)
	Watermark Soil Moisture Sensor (DI-6440)
	Leaf wetness sensor (DI-6420)
Select Gateway Data Plan (12 months)	Gateway Data Plan - 5 Minute Upload Interval (DI-6892A)
	Gateway Data Plan - 15 Minute Upload Interval (DI-6894A)
	Gateway Data Plan - 60 Minute Upload Interval (DI-6896A)
Mounting Options	Universal Mounting Pole Kit (WS-7717) (Limited Offer)!
	Universal Crank-shaped Mounting Pole Kit (WS-7715-CRANK)
	Davis Mounting Pole Kit (DI-7717)
	Davis EZ-Mount Tripod (DI-7716-00)
Activation fee	Data Plan Activation Fee (one off)