Documen	t Number	RG_SPEC-0007				
Title		Weather Stations				
Revision	Revision Date		Change History			
1.0	05/18/2011	Chris Brown	Initial Release.			

Introduction

MoTeC Systems USA is now offering the Davis Weather Stations for sale. There are two types available, the **Vantage Vue** and **Vantage Pro2**. A comparison table is provided below. Customers will also want to purchase a **WeatherLink** module to connect the weather station to their PC. A math plugin is available to integrate the weather station data directly into the MoTeC i2 Pro logged data files!



Feature	Vantage Vue	Vantage Pro2	Vantage Pro2-C			
Connection to Weather Console	wireless	wireless	cable			
Forecast Time	12 hour	24-28 hr	24-48 hr			
Glow in the dark keypad	✓	×	×			
Detachable anemometer, allows wind						
sensor to be mounted remotely	×	✓	✓			
Optional Items						
i2 Pro plugin to integrate data	•	*	*			
UV & Solar Radiation	×	0	0			
additional temp / humidity	×	0	0			

- ✓ included
- x not available
- optional
- requires WeatherLink





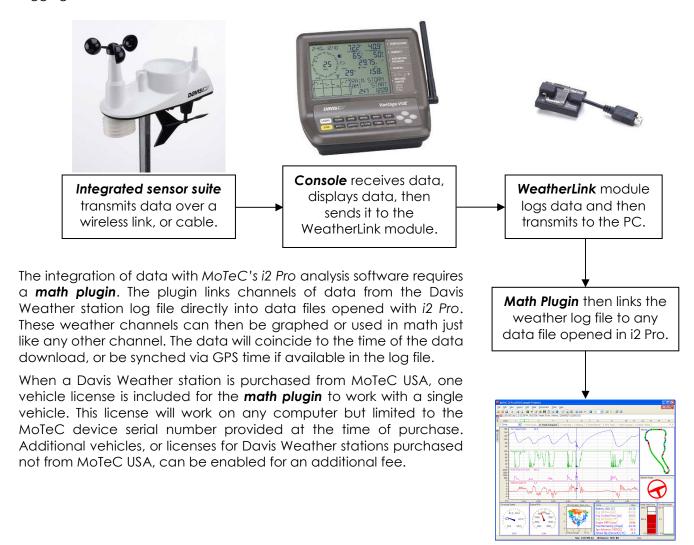
WeatherLink Module

To connect the Davis Weather station to a PC, the **WeatherLink** module is required. It is available in either serial or USB, as well as IP/ethernet.



How it Works

The weather console receives and displays weather information from the integrated sensor package for temperature, pressure and wind. If the console has the optional **WeatherLink** module plugged in, then the console will log directly to the memory inside the module. The data can be downloaded to a PC at a later time. The **WeatherLink** module can also send data directly to a PC for both displaying logging while connected.



Specifications

✓ included x not available o optional sensor requires weatherlink		Vantage Vue	Vantage Pro2	Update	urly Average	urly High	ly High	aily Low		Imperial Units	ı		Metric Units	ı
	Parameter	Λai	Val	Rate	유	윤	Daily	Dai	Resolution	Range	Accuracy	Resolution	Range	Accuracy
	Wind Speed	V	✓	2.5 sec	V	V	✓		1 mph	2 to 180 mph	5%	1 km/h	3 to 290 km/h	5%
7	Wind Direction	1	~	2.5 sec	✓				1°	0° to 360°	3°	1°	0° to 360°	3°
W	Compass Rose	1	1	2.5 sec					22.5°	16 compass points		22.5°	16 compass points	
	Direction of High Spd	✓	✓	2.5 sec					22.5°	16 compass poir	nts	22.5°	16 compass poir	nts
Baro	(-999 to +15,000 ft)	~	✓	1 min			~	✓	0.01" Hg	16" to 32.5" Hg	0.03" Hg	0.1 mbar	540-1100 mbar	1.0 mbar
Temp	Inside Temperature	1	1	1 min			V	V	0.1° F	32° to 140° F	1° F	0.1° C	0° to 60° C	0.5° C
		1	~	10 sec			V	V	0.1° F	-40° to 150° F	1° F	0.1° C	-40° to 65° C	0.5° C
	VVIIIU CIIII	✓	✓	10 sec				✓	1° F	-110° to 135° F	2° F	1° C	-79° to 57° C	1° C
Humidity	Inside Humidity	1	1	1 min			V	V	1%	1% to 100%	3%	1%	1% to 100%	3%
	Outside Humidty	V	1	50 sec			V	V	1%	1% to 100%	3%	1%	1% to 100%	3%
	Inside Dew Point	•	•	10 sec			V	V	0.1° F	-60° to 140° F	3° F	0.1° C	-50° to 60° F	1.5° C
	Outside Dew Fullit	✓	✓	10 sec			✓	✓	1° F	-105° to 130° F	3° F	1° C	-76° to 54° F	1.5° C
Rain	Rainfall	1	~	20 sec					0.01"	0 to 199"	4%	0.2mm	0 to 6553mm	4%
	Rate of Rainfall	V	V	20 sec	✓	✓	✓		0.01"/hr	0 to 40"/hr	5%	0.1mm/hr	0 to 1016mm/hr	5%
Solar	Solar Radiation	×	0	50 sec	✓		✓		1 W/m ²	0 to 1800	5%	1 W/m ²	0 to 1800	5%
	Solar Energy	×	•						0.1 Ly	1999.9 Ly	5%	0.1 Ly	1999.9 Ly	5%
	UV Dose	×	0	50 sec	V		✓		0.1 MEDs	0 to 199	5%	0.1 MEDs	0 to 199	5%
	UV Index	×	0	50 sec					0.1	0 to 16	5%	0.1	0 to 16	5%

Ordering & Pricing

Part #	Description	Price
M 6152	Vantage Pro2, WIRELESS	\$595
M 6152C	Vantage Pro2, CABLED	\$495
M 6250	Vantage Vue	\$395
M 6510SER	WeatherLink - serial	\$165
M 6510USB	WeatherLink - USB	\$165
M 6555	WeatherLink - IP/ethernet	\$165
M I2 WEATHER	i2 Math Plugin License*	\$ 50

^{*}one license included in a purchase of a Davis Vantage Pro2 or Vantage Vue.