

WeatherFile.com Connection Unit

- ▶ **Wireless network connection of wind and weather sensors to the internet.**
- ▶ **Display of weather data on any PC, tablet or smart phone connected to the internet.**
- ▶ **Logging of wind and weather data.**
- ▶ **Compatible with WindSonic, MaxiMet & MetPak sensors.**
- ▶ **Rugged IP67 enclosure.**
- ▶ **Connectors for ease of installation.**



Overview

The WeatherFile.com connection unit provides the means of connecting weather sensors to your local network or internet via Wi-Fi. The data can then be accessed by any pc, tablet or smart phone connected to your network or the internet. Data is viewable at WeatherFile.com and/or on your web site. The WeatherFile.com connection unit has a SD card for long term storage of data and data backup when internet access is not available. If a local network is not available, then our GSM option can be used to connect to the internet.

The WeatherFile.com connection unit's electronics are contained in a tough weather proof (IP67) enclosure with high quality connectors for ease of installation.

Once the system is installed and connected to the internet data is sent to our WeatherFile server for storage and processing. It can then be assessed at WeatherFile.com in real time just using a web browser.

If your requirements mean you need to keep your data private or the data is not applicable to the rest of the world who, for example would not be interested in the air flow through your greenhouse, a log in to your private area on the weatherfile.com site can be provided.

Often wind and weather monitoring is an important health and safety consideration and the team at R-P-R Ltd and WeatherFile.com are dedicated to providing the best professional solution for your application. Please do contact us if you require additional information.

Applications

Weather, wind speed and wind direction data collection for:

- ✓ Weather monitoring and warning
- ✓ Wind farm surveying and operations
- ✓ Construction industry, including crane operations
- ✓ Education and research projects
- ✓ Aviation operations
- ✓ Health and safety
- ✓ Sports and outdoor activities
- ✓ Agriculture and Horticulture
- ✓ Roads, bridges and tunnels
- ✓ Marine and offshore

Wind/Weather Systems

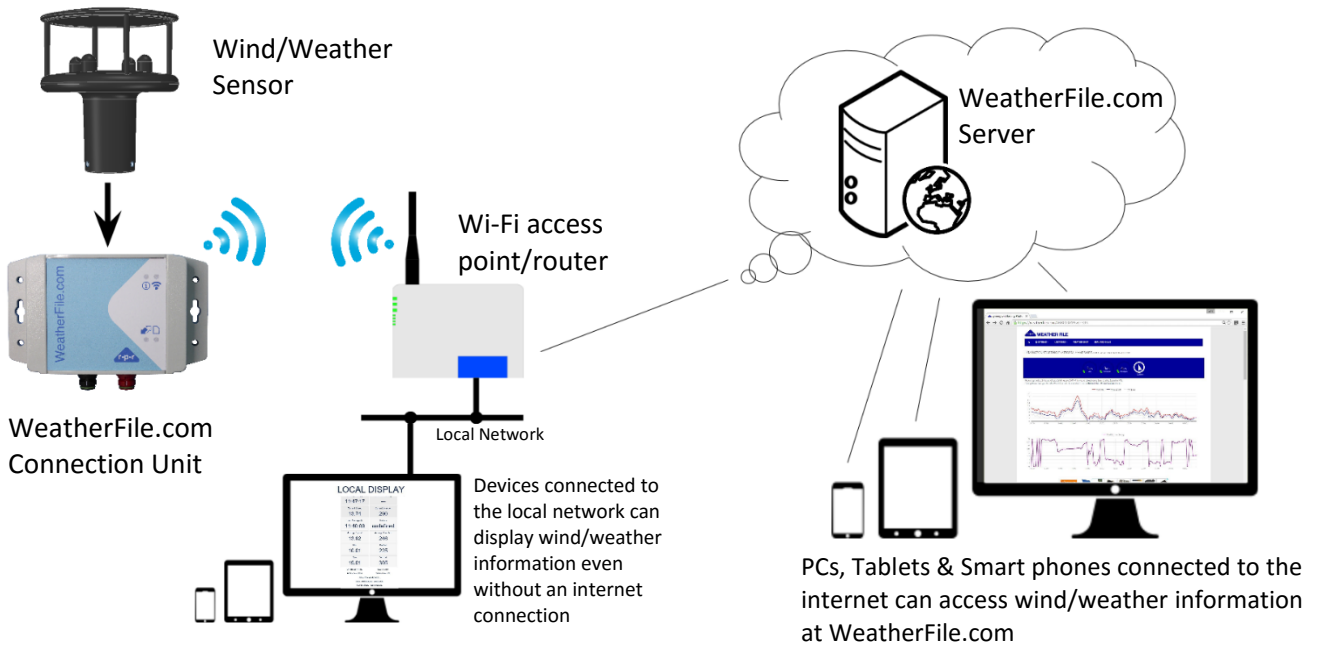
Richard Paul Russell Ltd offers a range of wind systems, weather instrumentation and data loggers. Please contact us for more information.

Contact Us

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WeatherFile.com Connection Unit



WeatherFile.com System Overview Diagram

WeatherFile.com Connection Unit Specification

Physical	
Enclosure dimensions including flanges but excluding connectors	91mm x 161mm x 38 mm
mounting holes	4 off 5 mm dia. 140.8 mm x 50.75 mm
Mounting key holes	2 off 8.5 mm dia. 4.6 mm slot, 140.8 spacing
Flange thickness	6.5 mm
Enclosure material	Polycarbonate RAL-7035 UL94
Dimensions of Connectors not including cap or mating cable connector	60 mm x 16 mm dia.
Weight	0.24kg
Sensor input	
Sensor type	Gill Instruments' WindSonic, WindObserver and WindMaster ultrasonic wind speed and direction sensors. MetPak, MetPak RG and MetPak Pro weather stations, MaxiMet sensors, NMEA compatible wind sensors with RS232 output. Please contact RPR Ltd if you wish to use other sensors.
Transmission standard	RS232 compatible, 8 bits and no parity
Sensor output format	Continuous mode: ASCII UV (or UVW), Polar or Tunnel from all sensors
Default Transmission speed	9600 Baud

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Wireless/network Connectivity	
Wireless module	Wi-Fi Certified 2.4GHz IEEE 802.11b/g 802.11i Security WPA2-PSK, WPA, WEP
Aerial	Internal aerial, circuit board mounted
Data Storage	
Data storage card	Removable SDHC card
Data capacity	8 GB (standard) or as per memory card capacity
File system	FAT16 or FAT32 with 8.3 file names
	Sector size 512 Bytes
Remote Cloud Storage	Data stored on the weatherfile.com server (1)
Audible / Visual Indicators	
LED indicators	SD card status
	Data input status
	Wireless connection status
	Status alert
Audio bleeper	Status alert
Real Time Clock	
Accuracy	±40 ppm at 25°C
Synchronisation	SNTP - Simple Network Time Protocol (1)
	GPS (2)
	Using PC program or SD card
Power	
Power requirement	5 V DC ±10%
Current at 5 VDC	200 mA typical
Environmental	
Temperature range	Operating: -25°C to +70°C [or dependent on card conditions]
	Storage: -40°C to +70°C
Enclosure protection	IP67
Notes	
(1) internet connection required	
(2) GPS sensor required	

The manufacturer reserves the right to amend the specification and therefore the information in this document may be subject to change.