

WindLogger

- ▶ Recording of wind speed and direction data
- ▶ Real-time clock for date and time-stamping of data with battery backup
- ▶ WindSonic sensor compatible
- ▶ Compact, economical and robust design
- ▶ Low power consumption
- ▶ MMC mobile Flash Card for high capacity data storage in easily removable and transferable format
- ▶ Stored data files simple to read with standard PC office software



Overview

WindLogger is one member of the SpaceLogger-RS family of data loggers. It has been developed for logging of real-time wind speed and direction data when using Gill Instruments' WindSonic ultrasonic wind sensors.

WindLogger is ideal for field data acquisition due to its low power consumption and high capacity data storage.

Each data record is date and time-stamped when it is stored. A new file (.CSV) is generated for each day's worth of data.

The unit uses an MMC mobile card for data storage. These cards are available with up to 2GByte capacity. WindLogger will also accept other compatible data storage cards.

After acquiring data, the MMC mobile card is removed from the logger and inserted into a card reader connected via a USB port to a PC. The stored data files are accessed in the same way as files on the computer's other disk drives. The data files may be analysed with any standard spreadsheet program.

The logging interval can be selected from the WindSonic settings of 4, 2 or 1 reading per second, or set to one reading every 2, 5 or 10 seconds. With a logging interval of one reading per second, using a 2GByte card, WindLogger will store up to 19 months worth of data.

New 2009: ▶ Improved compatibility with other RS232 sensors. ▶ File names and extensions are customisable. ▶ RS232 data output is available from the WindLogger.

Applications

Wind speed and direction data collection for:

- ✓ Weather monitoring
- ✓ Wind farm surveying and operations
- ✓ Construction industry, including crane operations
- ✓ Education and research projects
- ✓ Aviation operations
- ✓ Health and safety
- ✓ Sports and outdoor activities
- ✓ Agriculture

Wind Systems

Richard Paul Russell Ltd offers a range of wind systems, weather instrumentation and data loggers. For more information, please look at our website or contact us at the address below.

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WindLogger Specification

Physical	Dimensions	Width: 67 mm Depth: 67 mm Height: 28 mm (excluding optional rubber feet)
	Weight	75g
	Enclosure material	GP ABS (UL94-HB) plastic and acrylic
I/O Capability	Sensor type	Gill Instruments' WindSonic and other compatible sensors
	Transmission standard	RS232 compatible, 8 bits and no parity
	Transmission speed	9600 Baud (default) or selectable from 115200, 57600, 38400, 19200, 4800, 2400, 1200, 300 or 110 Baud
	Wire acceptance	0.32 to 0.65 mm diameter (AWG 28 to 22)
Data Storage	Data Storage Card	Removable MMC mobile
	Data Capacity	2 GByte (max)
	File System	FAT16 or FAT32 with 8.3 file names. Sector size 512 Bytes
	Data logging interval	Default as per WindSonic setting (1, 2 or 4 readings per sec or one reading every 2 or 4 seconds) or select from 1 reading per 2, 5 or 10 seconds
Audible / Visual Indicators	LED Indicators	Green: Ready to record data Red: Writing data to MMC mobile card
	Audible Bleeper	Status alert
Real Time Clock	Accuracy	±40 ppm at 25 °C
	Backup battery	CR2032
Power	Power requirement	7 to 30 Vdc
	Current at 12Vdc	10 mA typical
	Connection	1.3 mm centre pin DC connector, or Screwless terminals (0.32 to 0.64 mm diameter conductors)
Environmental	Temperature Range	Operating: -25 °C to +70 °C Storage: -40 °C to +70 °C
	EMC	CE marked - EMC directive 2004/108/EC FCC/CFR 47: Part 15:2004
Guarantee	Period	1 year

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

Example of WindLogger Application

