SpaceLogger®

.W10 [WindLogger]

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

Overview

The SpaceLogger.W10 (WindLogger) is optimised for logging real-time wind speed and direction data when using Gill Instruments' WindSonic & WindObserver ultrasonic wind sensors and for logging full environmental data from MetPak II weather stations.

Data is stored on a removable memory card, enabling remote data logging without the need for direct connection to a PC. After logging, the memory card can be simply inserted in a card reader, to view and analyse the data on a PC; no special software is required.

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 records data to an SD or MMC card. These cards are available with up to 2GB capacity.

Setup of the WindLogger, to change the baud rate, logging interval, file name format or data output, is simple via a configuration file written to the SD card. Settings are saved to memory.

WindLogger can be set to record every sample output by the WindSonic or MetPak II, or set to sample data every 1 to 60 seconds. With a logging interval of one reading per second, using a 2GB card, WindLogger will store up to 19 months worth of data.

The unit may be set up to output RS232 data as it is input or as logged. This enables connection to a PC, display or other device.

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

► For data logging from other RS232/NMEA sensors there is the SpaceLogger.S10 model.

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. Please contact us for more information.

Contact Us

e-mail: sales@r-p-r.co.uk
Tel: +44 (0)1590 679755
Fax: +44 (0)1590 688577
Website: www.r-p-r.co.uk

Richard Paul Russell Ltd
New Harbour Building
Bath Road, Lymington
SO41 3SE, UK

SpaceLogger®

SpaceLogger.W10 [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, WindObserver II and WindMaster ultrasonic wind speed and direction sensors MetPak II weather station Other sensors with data output starting <STX> and ending <LF>
	Transmission standard	RS232, 8 bits and no parity
	Sensor output format	Continuous mode: ASCII UV (or UVW), Polar or Tunnel from all sensors NMEA output from MetPak II only
	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 SD, MMC or MMC mobile card
	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 1 to 60 seconds
Audible / Visual Indicators	LED Indicators	Green: Ready to record data Red: Writing data to SD card
	Audible Bleeper	Status alert
Real Time Clock	Accuracy	±40 ppm at 25 ºC
	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 ºC to +70 ºC Storage: -40 ºC to +70 ºC
	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