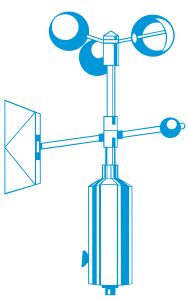
Meteo M&R

wind measurement

WindLogger data logger

LOGGER FOR DATA COLLECTION
OF WIND SPEED & DIRECTION
WHEN USING WINDSONIC WIND SENSORS

WindLogger has been developed for economic logging of real-time wind speed and direction data when using anemometers with a single serial output. WindLogger is compatible with Gill Instruments' WindSonic ultrasonic sensors.



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WindLogger

WindLogger has been developed for economic logging of real-time wind speed and direction data when using anemometers with a single serial output.

WindLogger is compatible with Gill Instruments' WindSonic ultrasonic sensors. To configure the unit for use with other sensors, the baud rate and the identifying start and end characters, which define each ASCII sentence to be logged, are user selectable.

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

Wind data is date and time-stamped and conveniently stored onto an MMC mobile memory card so no PC hook-up is required in the field. A new data file (.CSV) is generated for each day's recording and when transferred to a PC, may be analysed with any standard spreadsheet program.

MMC mobile cards are available with up to 2GByte capacity. WindLogger will also accept other compatible data storage cards.

With WindLogger, the logging interval may 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.

FEATURES

- Recording of wind speed & 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

TECHNICAL SPECIFICATIONS

PHYSICAL

Enclosure dimensions	67 x 67 x 28 mm
Weight	75g
Enclosure material	GP ABS (UL94-HB) plastic and acrylic
Enclosure protection	IP203

POWER SUPPLY

Supply voltage	7 - 30 V dc
Supply current	10 mA typical (at 12V dc)
Supply input protection	Polarity reversal protected and internal fuse – 500 mA slo-blo® (Littelfuse type 0454500 or equivalent)
Connection options (both included)	1.3 mm centre pin DC connector, or Screwless terminals (0.32 to 0.64 mm diameter conductors)

INTERFACE

Sensor type	Gill Instruments' WindSonic and other compatible sensors
RS232 serial input	8 bits and no parity Baud Rate 9600 Baud (default) or selectable to 115200, 57600, 38400, 19200, 4800, 2400 or 1200 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 selectable to 1 reading per 2, 5 or 10 seconds

AUDIO/VISUAL INDICATORS

LED indicators	Ready to record data (green LED) Writing data to MMC mobile card (red LED)
Audio bleeper	Two tone signal on correct card insertion Single tone when data purge button depressed Four bleeps per minute when time and date not set

REAL TIME CLOCK

Accuracy	±40 ppm at 25°C
Backup battery	CR2032

ENVIRONMENTAL

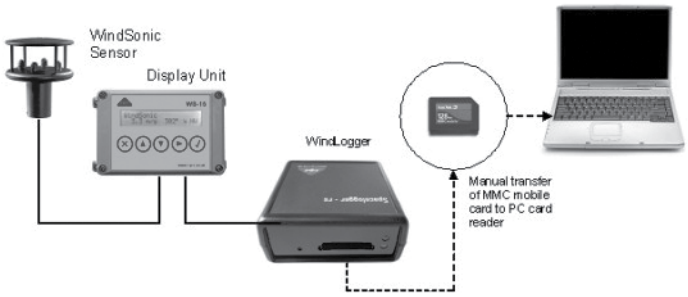
Temperature range	Operating: -25°C to +70°C [or dependent on card conditions] Storage: -40°C to +70°C
EMC	EMC Directive 89/336/EEC - CE marked (Emissions: EN61326:1997 inc A1/A2/A3:2003, EN60945:1997 Immunity: EN61326:1997) FCC/CFR 47: Part 15:2004

APPLICATIONS

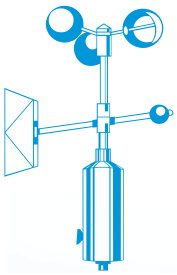
Wind speed & direction data collection for:

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

EXAMPLE



made to measure



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