

WIND101A

WIND SPEED DATA LOGGER



Features

- Durable Housing for Logger
- 3-cup Anemometer
- 0 to 100 MPH (0 to 160KPH) Range
- 0.085 MPH Resolution at a 10 Second Sampling Rate
- $\pm 2.5\%$ Calibrated Accuracy over 10 to 100 MPH (16 to 160 KPH) Range
- 10 Year Battery Life
- 1 Second Reading Rate
- Multiple Start/Stop Function
- Ultra High Speed Download
- 500,000 Reading Storage Capacity
- Battery Life Indicator
- Optional Password Protection
- Field Upgradeable

Benefits

- Simple Setup and Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

Applications

- Alternative Energy Studies
- Meteorology/Climatology
- Wind Turbine Location Assessments

The Wind101A is a complete system to accurately measure and record wind speed. This low cost wind speed recording system comes complete with a data logger, weatherproof enclosure, a three-cup anemometer and all the necessary cabling to quickly get up-and-running. The logger can record up to 500,000 readings and the storage medium is non-volatile, solid state memory, providing maximum data security even if the battery becomes discharged.



The device can be started and stopped directly from a computer using our user-friendly software.

MADGETECH DATA LOGGER SOFTWARE

Key

- A Graph View
- B Tabular Data View
- C Statistics
- D Digital Calibration
- E Copy to Excel*

The screenshot shows the MadgeTech software interface. It features a main window with a graph (A) and a data table (B). The graph displays wind speed data over time. The data table shows columns for 'Pulse #', 'Date & Time (EDT)', 'Pulses', and 'Units'. A 'General Statistics' window (C) is open, showing various parameters like 'Calibration Parameter', 'Last Reading', 'Last Time', 'Last Date', 'Last Time', 'Last Date', 'Last Time', 'Last Date', 'Last Time', 'Last Date'. A 'Digital Calibration' window (D) is also open, showing 'Device Type', 'Serial Number', 'Last Calibration Date', and 'Next Calibration Due'. A 'Copy to Excel' button (E) is visible in the bottom right corner of the main window.

Software Features:

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

WIND101A SPECIFICATIONS*

Measurement Range: 0 to 100 mph (0 to 45 m/s)

Resolution: 0.085 mph at 10 second reading interval

Accuracy: ±2.0 mph from 0 to 10 mph
±2.5% of reading from >10 to 100 mph

Starting Threshold: 1.75 mph

Reading Rate: 1 reading every second to 1 every 24 hours

Memory: 500,000 readings; software configurable memory wrap
250,000 readings in multiple start/stop

Wrap Around: Yes

Start Modes:

- Immediate start
- Delay start up to 18 months
- Multiple pushbutton start/stop

Stop Modes:

- Manual through software
- Timed (specific date and time)

Multiple Start/Stop Mode: Start and stop the device multiple times without having to download data or communicate with a PC

Multiple Start/Stop Mode Activation: To start the device:
Press and hold the pushbutton for 5 seconds, the green LED will flash during this time. The device has started logging.

To stop the device:
Press and hold the pushbutton for 5 seconds, the red LED will flash during this time. The device has stopped logging.

Real Time Recording: The device may be used with PC to monitor and record data in real-time

LED Functionality: Green LED blinks:
10 second rate to indicate logging
15 second rate to indicate delay start

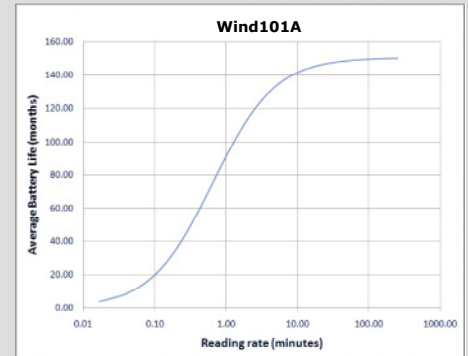
Red LED blinks:
10 second rate to indicate low battery and/or full memory
1 second rate to indicate an alarm condition

Password Protection: An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password.

Engineering Units: See the Wind101A Quick Setup Guide for instructions on how to program windspeed engineering units.

Battery Type: 3.6V lithium battery included; **user replaceable**

Battery Life: 10 years typical, dependent upon frequency and duty cycle



Graph display of the device recording in a 25°C environment.

Time Accuracy: ±1 minute/month (at 20°C/68°F, stand alone data logging)

Computer Interface: USB (interface cable included); 115,200 baud

Software: XP SP3/Vista/Windows 7

Anemometer Operating Environment: -55°C to +60°C (-67°F to +150°F);

Environment: 0%RH to 100%RH

Data Logger Operating Environment: -40°C to +80°C (-40°F to +176°F),

Environment: 0%RH to 95%RH non-condensing

IP Rating: IP65

Anemometer Dimensions: 2.1" height x 7.53" Diameter

Dimensions: (54mm height x 192 mm dia.)
(mount post not included)

Housing Dimensions: 2.9" x 5.8" x 1.5"
(74mm x 148mm x 39mm)

Weight: 18.1 oz (513 g)

Materials: ABS Plastic

BATTERY WARNING: WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80°C (176°F).

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY. CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

ORDERING INFORMATION

MODEL	DESCRIPTION	PRICE (U.S.)
Wind101A	Wind speed recording system. Includes 3-cup anemometer with sensor connection cable (25'), data recorder, weatherproof enclosure and the IFC200 (USB) interface cable and software kit.	\$419.00
Wind101A-50	Wind speed recording system. Includes 3-cup anemometer with sensor connection cable (50'), data recorder, weatherproof enclosure and the IFC200 (USB) interface cable and software kit.	\$469.00
Wind101A-100	Wind speed recording system. Includes 3-cup anemometer with sensor connection cable (100'), data recorder, weatherproof enclosure and the IFC200 (USB) interface cable and software kit.	\$519.00
Wind101A-150	Wind speed recording system. Includes 3-cup anemometer with sensor connection cable (150'), data recorder, weatherproof enclosure and the IFC200 (USB) interface cable and software kit.	\$569.00
LTC-7PN	Replacement battery for Wind101A	\$10.00

ASK ABOUT
OUR OTHER
DATA
LOGGERS

Temperature
Humidity
Pressure
pH
Level
Shock
LCD Display
Pulse/Event/State
Current
Voltage
Wireless
Intrinsically Safe
Spectral Vibration
Motion