



A u r o v i l l e
W i n d
S y s t e m s

WIND-GENIE Data Logger

Wind - Genie presents the new generation of intelligent controller for system operation, monitoring and human interface.

The microprocessor based package combines the functions of:



- **Universal Data Logger**
- **8 analog and 8 digital channels**
- **LCD display with back light**
- **Integrated 12 button Keyboard**
- **64 MB to 512 MB Data storage**
- **Integrated C-Mos Battery**
- **70 hours power back up**
- **self-powered by Solar Panels**
- **RS232 Computer interface**

All channels are individually programmable and allow a free choice of log-channel, log-time interval and instrument calibration.

Standard Sensors:



- **Anemometer**
- **Wind direction vane**
- **Temperature**
- **Precipitation**
- **Barometric pressure**
- **Relative humidity**
- **Irradiation**



Up to 1 year of recorded data can be stored safely on the Flash Memory Card.

The card is easily retrieved with the push of a button and data transferred with the SD Card Reader to any standard PC or Laptop. All brands of SD cards are compatible and available in sizes of 64 – 512 MB.

Also available are a variety of specialized sensors

- Fluid pressure
- Fluid velocity
- Fluid temperature
- Extreme temperature
- Electrical Power
- Electrical Current

The **Wind-Genie** Data Logger can monitor all relevant weather data such as.

- Wind speed and direction (optionally at one, two or three levels)
- Air temperature
- Humidity
- Air pressure
- Precipitation

The **Wind-Genie** Data Logger can monitor a variety of other data for industrial machinery metering and performance or specialized process monitoring,

- Generated power,
- Consumed power
- Accumulated power
- Pressure, velocity and temperature in fluids
- Machine start/stop
- Errors

Together with the current date and time each log point is stored on a Flash memory card. The card can be easily removed and data transferred to any standard PC or Laptop. Data can be edited and analyzed with any spread-sheet program such as Microsoft Excel or Lotus.

Other Features

Programming

Operational parameters and Programming of the **Wind-Genie** can be achieved through the built-in 12 key keypad or via the Serial Port connection with direct interface to a PC or Laptop.

Data and operational parameter display

All relevant information is displayed in the 4 line LCD Screen

Power Consumption of the controller is extremely low (100 mA). A battery pack of 4 “D”-size NH cells supplies independent power for up to 1 week and the batteries are automatically re-charged by an inbuilt charger through mains supply (110 or 220V) or Solar panel (6V, 10 W).

Real-time Clock

The onboard clock supplies accurate date and time and is self-powered by an independent Ni-Ion battery to ensure that no data is lost even during very long power outages.

Standard applications are:

- Weather stations
- Wind power assessment
- Wind turbine performance
- Power metering
- Surface water resource assessment
- Observation and metering in laboratories

The **Wind-Genie** Data Logger is the perfect choice for unattended operations in remote or inaccessible locations.

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