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internet telemetry systems



LeWL wind logger

MMC / SD card memory storage - FAT16 & FAT32

- Files ready to import into spreadsheet
- Data archived into monthly files (1 or 10 minutes average)
- Data archived into daily files (10 seconds average)
- Logs average and maximum wind values

Real Time Clock

- Archive records with date and time stamp

Two simultaneous anemometers input

- Log two anemometers at once
- Supports dry contact switch, hall effect switch, or TTL level signal

Wind direction input

- Potentiometer type wind direction sensor
- 16 bins wind direction

Built in temperature sensor

- PCB mounted temperature sensor

Serial port to interface with PC

- RS232 compatible for reading values while logging
- Setup menu via serial port

Very Low power consumption

- 2 x C type standard alkaline batteries
- More than a year of uninterrupted operation with a single set of batteries when logging 1 minute average or higher

Custom sensor factor value

- Use any sensor and store speed, power, etc
- Compatible with SO pulse output energy meters

TECHNICAL SPECIFICATIONS

Memory:	SD/MMC flash card (FAT16/32)
Power:	2 x Alkaline batteries 1.5v C size
OTR:	-15°C to +50°C
Sensor Input:	1 Analogue & 2 Digital input Channel
Communications:	RS232 @ 4800
Logging Interval:	10 second, 1 or 10 minutes, user-specified interval.
Output:	CSV ASCII format data file.
Housing:	Sealed plastic case. (IP65)
Dimensions:	160x80x55mm.
Weight:	450 gm (including batteries)

www.windlogger.co.uk

WIND SPEED

The LeWL stand alone wind logger comprises of two digital channels of contact closure from an anemometer and an analogue channel for measuring wind direction from a potentiometer style vane. The unit is fully configurable to select between one or two simultaneous anemometer readings with changeable conversion factor to calculate wind speed. The wind direction readings are temporally stored in 16 bins (i.e.: NNW, SSE) and the one with major number of incidences is selected.

POWER & ENERGY PERFORMANCE

The LeWL can also be used to check performance and power output of any wind turbine with the help of an export kWh meter. The pulse output of the kWh meter can be connected to the second digital input and by changing its conversion factor, it can provide power or energy values. Together with the wind sensors, this setup can be very useful to generate power curves and performance checkups of wind turbines.

TEMPERATURE

The LeWL has a temperature sensor built-in. This temperature sensor is able to measure temperatures from -40°C to $+125^{\circ}\text{C}$. If more accurate readings were to be taken, the unit should be shielded from radiation.

SERIAL PORT RS232

The LeWL comes with a socket for serial port compatible with RS232 standards. This serial port is used to setup the LeWL and to connect to external displays or computers to access data collected in real time.



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