

# LeWL Windlogger



**logicenergy**

LIVE MONITORING



## Features

- 3 channels for 2 switch/pulse anemometers and 1 potentiometer wind vane
- Wind direction readings are temporarily stored in 16 bins (i.e.: NNW, SSE)
- Time series data recorded on Industrial grade SD card
- Rugged design IP65 enclosure
- Logs data every 1 min or 10 minutes
- Communications: RS232 compatible
- The LeWL is compatible with the Pro-D Anemometer

## Benefits

- Instant data transfer via memory card
- Simultaneous multiple wind speed recording
- Fully waterproof system
- Analysis tools included
- Very low power consumption
- Manufactured in the UK

## Applications

- Wind site assessment

LeWL windlogger has been designed for small scale wind assessment with no need for a computer to log data. It is a completely stand alone system. The unit shares many features from the professional wind energy world such as providing average, standard deviation and gust wind speeds recorded every 1 minute or 10 minutes. The LeWL windlogger is fully configurable to select between one or two simultaneous anemometer readings with changeable conversion factor to calculate wind speed.

	A	B	C	D	E	F	G	H	I	J
1	Date	Time	W_Direction	Temp °C	Wind1 AVG	Wind1max	StDev1	Wind2	Wind2max	StDev2
3630	26/09/2009	23:39:04	315	9.5	6.72	7.69	0.54	6.65	7.39	0.59
3631	26/09/2009	23:40:04	315	9.5	7.09	8.31	0.62	6.19	7.39	0.64
3632	26/09/2009	23:41:04	315	9.5	7.02	7.54	0.56	6.48	8.76	1.01
3633	26/09/2009	23:42:04	315	9.5	7.17	8.46	0.69	6.65	8.15	0.61
3634	26/09/2009	23:43:04	315	9.5	7.26	7.69	0.53	7.02	8.15	0.75
3635	26/09/2009	23:44:04	315	9.5	7.49	8.92	0.65	6.72	7.23	0.56
3636	26/09/2009	23:45:04	315	9.5	7.54	8.61	0.61	6.71	7.69	0.6
3637	26/09/2009	23:46:04	315	9.5	6.46	6.78	0.5	6.74	7.39	0.52
3638	26/09/2009	23:47:04	315	9.5	6.94	8.46	0.67	7.3	8.46	0.61
3639	26/09/2009	23:48:04	315	9.75	6.88	7.39	0.52	7.86	8.76	0.59



## LeWL Features

- Spreadsheet and Java program to create reports for Frequency distribution and wind roses
- Data stored on SD/MMC card in CSV format for import into Excel
- Statistics
- Automatic report generation
- Summary View

## Technical Specification:

<b>Memory:</b>	SD/MMC flash card (FAT16/32), 2GB max.
<b>Power:</b>	2 x Alkaline batteries 1.5v C size
<b>Operating Temperature:</b>	-15°C to +50°C
<b>Maximum frequency Input:</b>	200Hz max (internal pull-up to suit reed switch / dry contact)
<b>Sensor Input:</b>	1 Analogue and 2 Digital input Channels
<b>Communications:</b>	RS232 @ 4800baud
<b>Logging Interval:</b>	1 minute or 10 minutes
<b>Output data format:</b>	CSV ASCII format data file
<b>Readings:</b>	Average wind speed for anemometer 1 and 2 (m/s) Maximum wind speed for anemometer 1 and 2 (m/s) Standard deviation for anemometer 1 and 2 (m/s) Wind direction (degrees, 16 bins) Temperature (degrees Celsius, for internal logger reference)
<b>Housing:</b>	Sealed plastic case (IP65)
<b>Dimensions:</b>	160x80x55mm excluding cable gland
<b>Weight:</b>	approx 450 gm (including batteries)

## Ordering Information:

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