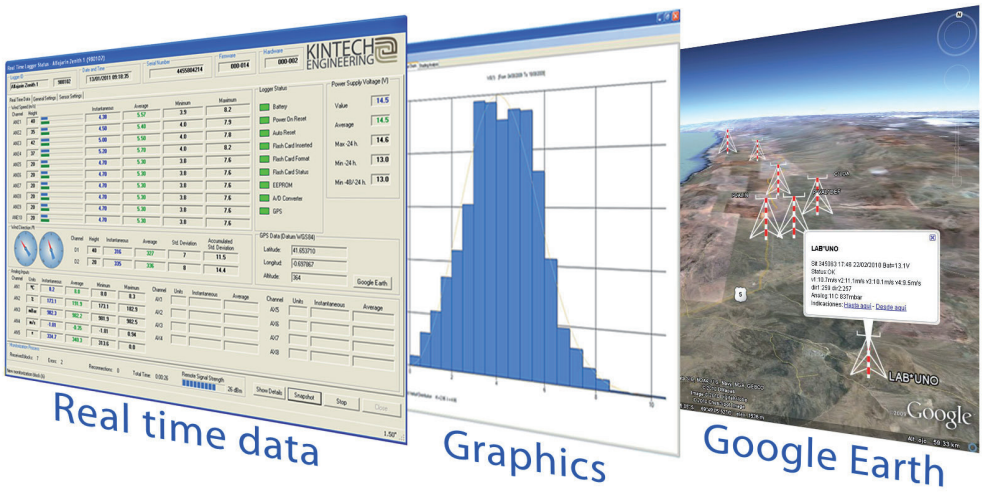
MAXIMIZE YOUR WIND ENERGY POTENTIAL

3rd GENERATION WIND DATA LOGGER EOL ZENITH

Our 3rd generation wind data logger is packed with new features

The EOL ZENITH collects wind data in compliance with IEC61400-12 for high quality wind assessment campaigns, where maximum performance and reliability is a must. The perfect combination of data logger technology together with the most advanced software for modern wind assessment.



- Google Earth
- GPS positioning
- GPRS / Satellite / Modbus
- 1 Hz sampling rate
- Advanced graphics
- Real time data
- Advanced TI calculations
- 10 anemometers
- 7 wind vanes
- EOL Manager
- Data encryption
- 15 analog channels

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The EOL Zenith is the 3rd generation data logger from Kintech Engineering. The EOL Zenith features 1Hz sampling rate (complying with IEC 61400-12), extended turbulence calculation (TI30), standard deviation, MAX and MIN for all input channels and advanced sensor error diagnosis (e.g. wind vane std. dev.). Real time data together with the Tower Management Tool (TMT) makes it much easier for you to keep track of all your wind assessment sites.

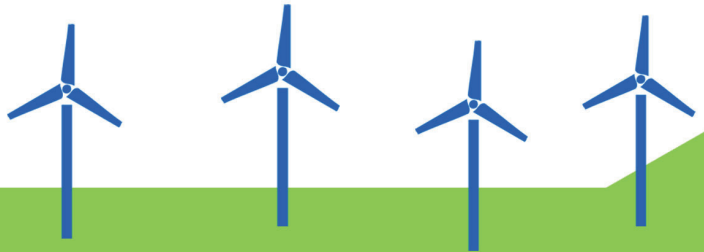
The EOL Zenith includes a GPS module, providing perfect timing, accurate positioning of the met mast for micrositing as well as simplifying site management and supervision. The perfect combination of data logger technology together with the most advanced software for modern wind assessment.

Inputs Wind speed (anemometers):	10
Wind direction (5 analogues and 2 digital):	7
Analog (temperature, pressure etc.):	15
Data sampling rate:	1Hz
Recording intervals (time stamped):	10 min.
GPS positioning (digital signature):	YES
GPS internal clock:	YES
EOL Manager (advanced graphics):	YES
SCADA connection (option):	YES

Data storage and transfer

Memory capacity (SD/MMC) 5 years of data:	2GB
Web browser access (Internet Explorer):	YES
Remote settings modification:	YES
GPRS telemetry and real time data:	YES
Satellite telemetry and real time data (option):	YES

All input channels are compatible with all class 1 anemometers without the use of interface cards.



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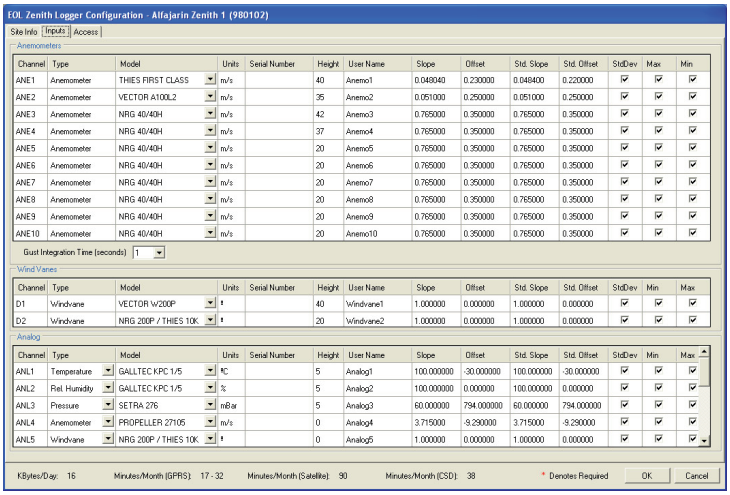
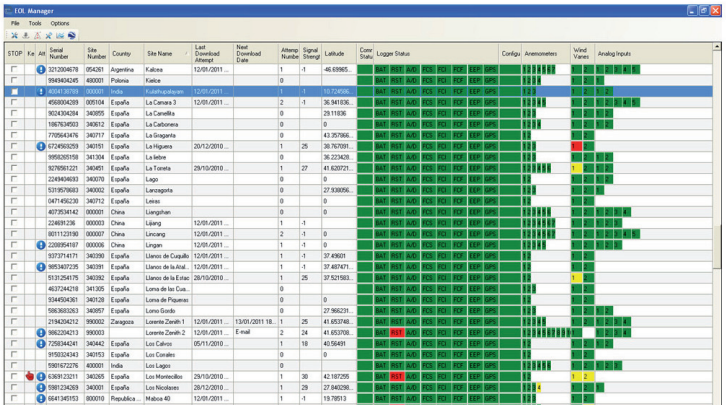
The most advanced software for modern wind assessment

The software and remote monitoring system developed for the EOL ZENITH data logger ensure safe and easy access to wind data and logger status, and forms an integral part of the data acquisition system. The software can automatically download all your wind data from an unlimited number of wind assessment towers any day and time forming an integral part of the data acquisition. The software design was created with the user in mind and is both comprehensive and easy to use.



Setup of data logger, sensors, automatic data transfer etc.



Main overview of data loggers (status on sensors etc.)

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The new developed software for the EOL ZENITH has been visually enhanced with several new features, including advanced graphics for more accurate wind data trouble shooting. The software offers better control of multiple wind assessment sites with automatic and real time connectivity for wind data transmissions.

- Line, rose, bar, scatter and shading charts etc.
- Site setup with calibrations and offsets
- Real time connection (GPRS/GSM/SATELLITE)
- Automatic wind data download

The software introduces several new features including advanced graphics for data analysis (Weibull "best fit", shading analysis charts etc.) and makes it easier to keep track of all your different wind assessment sites.

Output format

The output format of the wind data files is in text and excel format and includes specific site identification, GPS position and 10 min. timestamps. The data can be imported directly into programs such as WASP, Windsim etc.

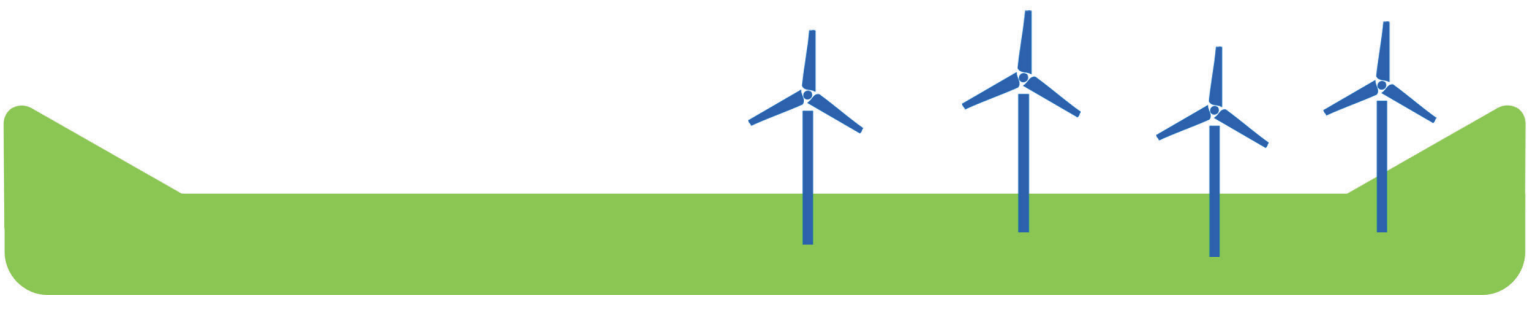
The software for the EOL ZENITH is divided in two sections.

EOL Manager

The application allows for configuration of the data loggers, sensors connected to the data loggers, modem type, telephone number, how to download the wind data and the frequency of the automatic downloads. For example, view the picture above from the "setup screen" as well as the Main overview screen.

EOL Charting

The charting tool is the wind data analysis segment of the EOL ZENITH software. It reads the data files from the met towers, and produces clear and easy to understand graphs, wind roses, mast shading, "best fit" Weibull etc. The charting tool allows for advanced quality control of the wind data and makes it easy for you to check the quality of your wind data.



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