



## NEW: WIND MONITORING SYSTEM EKO 21

using Compact Flash memory cards (16-512 Mb) >>>> [INTERNET ENABLED](#)

### INTRODUCTION

The EKO21 is ideal for measurements and monitoring of wind energy systems, meteorology (e.g. wind measurements). Powerful options are e.g.: automatic data transfer (also via GSM) to PC or to internet by FTP, also wireless via GPRS and outputs for control and alarms (also via SMS or e-mail). The basic unit accepts up to 8 versatile input boards (e.g. anemometers, wind vanes with lightning protection) and 8 additional in/outputs are possible (e.g. for temperature, pressure, power, analog signals 0/5/10 VDC, 0/4..20 mA etc) and is expandable up to 128 inputs!

A very compact design and ultra low power, suited for battery operation. Superior multilayer smd-technology and CF memory card. The CF card is easy to read with laptop computer (PCMCIA slot) or optional CF card reader for desktop PC (via USB).

**High performance, accuracy and flexibility for low budgets!**

### MOST SIGNIFICANT FEATURES OF WIND/METEO LOGGER EKO21B

- \* **MEMORY:** Compact Flash (size 16-512 Mbyte): a compact and reliable non-volatile memory!
- \* **ACCURACY:** meets IEC standard 61400 part 12. The required accuracy for wind resource measurements is 0,1-0,2 m/s, refer to the article "The truth about windspeed and wind power measurements" (at [www.ekopower.com](http://www.ekopower.com)). An individual calibration certificate can be supplied with European MEASNET (ISO 3966) procedure.
- \* **RESOLUTION:** the resolution of recorded values of wind speed is 0,01 m/s (12 bits resolution).
- \* **COMMUNICATION:** automatic data transfer to PC, E-mail or internet (with optional built-in GSM/GPRS modem also alarm reporting with SMS), datalogger networks possible with automatic downloading by telephone or GSM (up to 1000 loggers).
- \* **INTERNET ENABLED:** [Datafiles automatically transferred via FTP to server or website, historical graphs with current real-time values at your website \(also wireless via GPRS\)](#)
- \* **SYNCHRONISATION:** recording of data can be synchronised with real time clock (e.g. each 10 minutes a record starting at 12:00 ) for better correlation and regression analysis with existing meteo data.
- \* **OPTIONAL MASTS and BOOMS** are according to IEC standard.
- \* **RELIABILITY:** built in waterproof cabinet, lightning protected (up to 20.000 A), very reliable :20 years experience in wind monitoring in over 70 countries;proven 100 % availability in many projects
- \* **FOOL PROOF:** no buttons, very easy to operate diagnostics are indicated by LEDs, while test signals are available for simulation of sensors & signals and additional information is available via the RS 232 interface of a (notebook) PC.
- \* **LOW POWER :** only a small battery pack is required for 1 year operation.
- \* **USER-FRIENDLY:** no training required, ready for use systems, dataprocessing utilities are available for flexible and easy dataprocessing, highly flexible: record and sample interval are free selectable, quick configuration of logger parameters (no of active channels: type of channels, function of channels: average, maximum, minimum and standard deviation (turbulence intensity), adjustable slope and offset for sensors like anemometers.
- \* **COMPLETE READY-FOR-USE SYSTEMS** are supplied, no engineering or programming required: "tailor made" systems are available to meet your specific requirements.

FOR MORE INFORMATION PLEASE VISIT: [WWW.EKOPOWER.COM](http://WWW.EKOPOWER.COM)