



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). 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