

Technical Data

Measurement inputs		Communication	
Digital measurement inputs	10	Ethernet interface	(LAN), 10 MBit/s
Analogue measurement inputs	6 x differential or 12 x single-ended	Remote data transmission	integrated GSM / GPRS Modem, (quadband)
Serial inputs	RS485, half-duplex 1,200 .. 115,200 baud	Automatical data transmission	via eMail
Digital measurement inputs		Internet integration	via GPRS / CDMA /DSL / Satellite
Measurement range	0 .. 2,000 Hz frequency or counter	User interface	Web interface, Internet browser
Resolution	0.01 Hz	Power supply	
Accuracy	frequency $\pm 0.1\%$ counter ± 1 pulse	External power supply	solar module, integrated charge controller
Signal level	TTL / AC / potential free switch	Internal power supply	2 sealed lead batteries 12 V
Input impedance	300 k Ω	Current consumption	typ. 600 mW (50 mA @ 12 V)
Analogue measurement inputs		Sensor excitation	12 VDC switched, constant current supply
Measurement range	± 15 V differential, 0 .. 15V single-ended	Switching outputs	4 switching outputs, HI = supply voltage, LO = 0 V, time or event triggered
Resolution	16 Bit autoranging, max. resolution 10 μ V	Surge protection	multistage protection for all sensors
Accuracy	$\pm 0.1\%$ of reading ± 100 μ V	Mechanics + operating conditions	
Input impedance	1 M Ω	Casing	350 x 390 x 200 mm, IP64, polycarbonate
Measurement functions		Connections	plugged screw terminals, RJ45
Measurement interval	1 s .. 24 h	Temperature range	-40 .. +70 $^{\circ}$ C
Statistic interval	1 s .. 24 h		
Statistic functions	average (arithmetic + vectorial), standard deviation (arithmetic + vectorial), minimum, maximum, sum		
Data memory for statistic time series	32 MB non-volatile ring buffer		
Data memory for samples	32 MB non-volatile ring buffer		

blueberry COMPACT Data Logger



The economical solution for wind site assessment, environmental monitoring and meteorological research

Your distributor

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The blueberry COMPACT All-In-One Data Logger System



climate research



wind site assessment



SCADA wind and solar site monitoring



environmental monitoring

The **blueberry COMPACT** is an all-in-one data logger system based on our proven **blueberry NDL485** technology. The integration of all components of the data logger system into a compact enclosure makes the **blueberry COMPACT** a powerful and attractively priced data logger for wind site assessment, environmental monitoring and meteorological research.



compact design

All components of the data logging system are integrated in a rugged weatherproof housing.



automatical alarm messages

Alarm messages via eMail and SMS indicate power supply and sensor failure.



integrated overvoltage protection

Surge protection for all data and power supply terminals. No need for expensive extra protection modules.



integrated GPRS modem

Worldwide remote data transmission via integrated quadband GSM/GPRS modem.



inputs for opto, AC and reed switch anemometers

10 digital measurement inputs for virtually any anemometer type. Direct connection of AC signals, e.g., from R.M.Young Wind Monitor.



realtime access via Internet

Internet integration via GPRS/CDMA/DSL/Satellite. Easy local and remote access via web browser. Automatical data transmission via eMail, FTP and SCP.



high resolution analogue inputs

6 differential or 12 single-ended analogue inputs. Pt100 temperature sensors and pyranometers can be connected directly without external amplifiers.



integrated charge controller

The integrated solar charge controller manages the backup batteries.



control outputs

4 digital outputs switch external devices and activate alarms.