



The New Ammonit Data Logger Meteo-40

available in January 2011

Preview - The New Ammonit Data Logger Meteo-40

Ammonit New Data Logger Meteo-40

Ammonit has developed and produced data loggers for the wind industry since 1989.

Our development engineers have constantly improved the Ammonit data loggers in close co-operation with the production and sales team, responding directly to the requirements of our customers and the latest technology.

Ammonit is currently finalising the development of a new data logger generation, called Meteo-40. Meteo-40 will replace the very successful data logger series 32, offering many new and improved features. The new Ammonit logger will be state-of-the-art for years to come!

Meteo-40 data loggers will ensure the most accurate and highly precise measurement standards required by professional wind consultants, wind farm operators and research engineers.

It can be utilised for: wind site assessment, wind farm monitoring, climate research, solar assessment & solar monitoring, traffic meteorology and agricultural meteorology. It will be suitable for all climates and very remote locations.

Meteo-40 will be officially launched at HusumWind 2010 in September. Availability January 2011, in 2 configurations: 40 M (Medium) & 40 L (Large).

Overview Channels	Meteo-40 M	Meteo-40 L	Applications
Data Output	4	8	Switches
Connectivity	(2) USB host, (1) USB device		PC; Modem; Memory Stick; Ethernet; WiFi
	(1) RS-485, Master		Smart Sensors (e.g. Ultrasonics)
	(1) RS-485, Slave		SCADA, Wind Farm Monitoring Software
	(1) RS-232		Modem
Display & Keys	(20 x 4) LC display with backlight, five keys		
Counter	8	12	Anemometers Precipitation Sensor
Digital/Status	4	8	Serial Wind Vane (e.g. TMR Vane)
Analog Voltage	8 16-bit $\pm 0.1V, \pm 1V, \pm 10V$	12 16-bit $\pm 0.1V, \pm 1V, \pm 10V$	Potentiometric Wind Vane Meteo Sensors Barometers Hygro- Thermal Sensors Pyranometers
Analog Current	1 16-bit $\pm 20 \text{ mAmp}$	2 16-bit $\pm 20 \text{ mAmp}$	PT 100 Barometer

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Features - Data Logger Meteo-40:

Application / Outdoors:

1. Data logger applications: wind site assessment, wind farm monitoring, climate research, solar assessment and solar monitoring, traffic and agricultural meteorology.
2. Meteo-40 is available in two configurations: Meteo-40 M (Medium) & Meteo- 40L (Large).
3. Suitable for all climates and the remotest regions.
4. Self-contained, low maintenance & high performance.
5. Designed for the toughest real-world conditions and tested in independent laboratories.
6. Low power consumption, runs on 50W solar panels.

Measurement Technology:

7. 2 GB memory: recording of complete 1 sec. original measurement data (approx. 1 year - typical number of sensors).
8. Additional storage of aggregate data (min.~3 years).
9. Many channels (max. ~22 or max. ~35), differential measurement.
10. High resolution (~16bit, ~8Hz): symmetric, differential analog channels with various input ranges to choose from ($\pm 0.1V$, $\pm 1V$, $\pm 10V$).
11. High sensitivity analog input, e.g. temperature sensor PT 100.
12. Digital channel for smart sensors such as the Thies TMR vane, no mechanical wear, higher precision.
13. Counter channel with AC input support allows for a combination of high quality Thies sensors with cheaper sensors, e.g. NRG sensor w/o adapter.

Communication:

14. Data communication and data exchange via HTTPS, FTP, SCP connection and email.
15. Modem: GSM, CDMA, GPRS, (RS-485 / RS-232); 3 USB slots for PC-connections; Adapter: WiFi, Ethernet or memory stick.
16. UMTS & Bluetooth will be offered at a later stage.
17. Compatibility with all SCADA systems.
18. Easy connection to computer via USB cable or remote via the internet.

Flexibility / Convenience:

19. Integrated Linux system for maximum flexibility and adaptability.
20. A new structural concept makes Meteo-40 very flexible. (An application programming interface (API) to customise the data logger is planned for later Meteo-40 firmware releases.
21. Web based access without need for additional software.
22. User-friendly web interface, large LC display for autonomous applications.
23. Multi-lingual configuration; Meteo-40 settings can be adjusted to a language of your choice, currently English, Spanish, German, French. Additional languages options will be added at a later stage).
24. Multi-lingual online help.
25. Accessible, modern product design.
26. Custom software provided by Ammonit, on request.

Meteo-40 is available in early 2011.

Please note that all information as stated in this document is preliminary.

measuring wind power

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