Welcome to Ammonit
Presentation New Data Logger Meteo-40

It will be available in early 2011
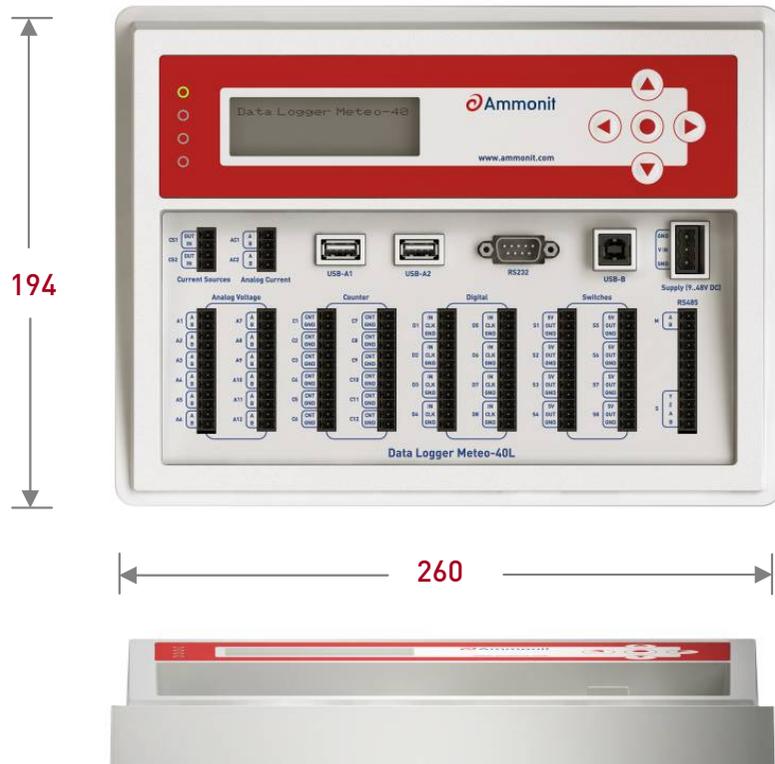
Ammonit Data Logger-Meteo 40

Launch at Husumwind 2010 – Available in early 2011

Meteo-40: a new data logger generation with powerful features

Ammonit Data Logger-Meteo 40

Dimensions: 260 (l) x 194 (w) x max. 50mm (h)

Fits into a
standard Ammonit
steel cabinet,
incl. logger accessories

Ammonit Data Logger-Meteo 40

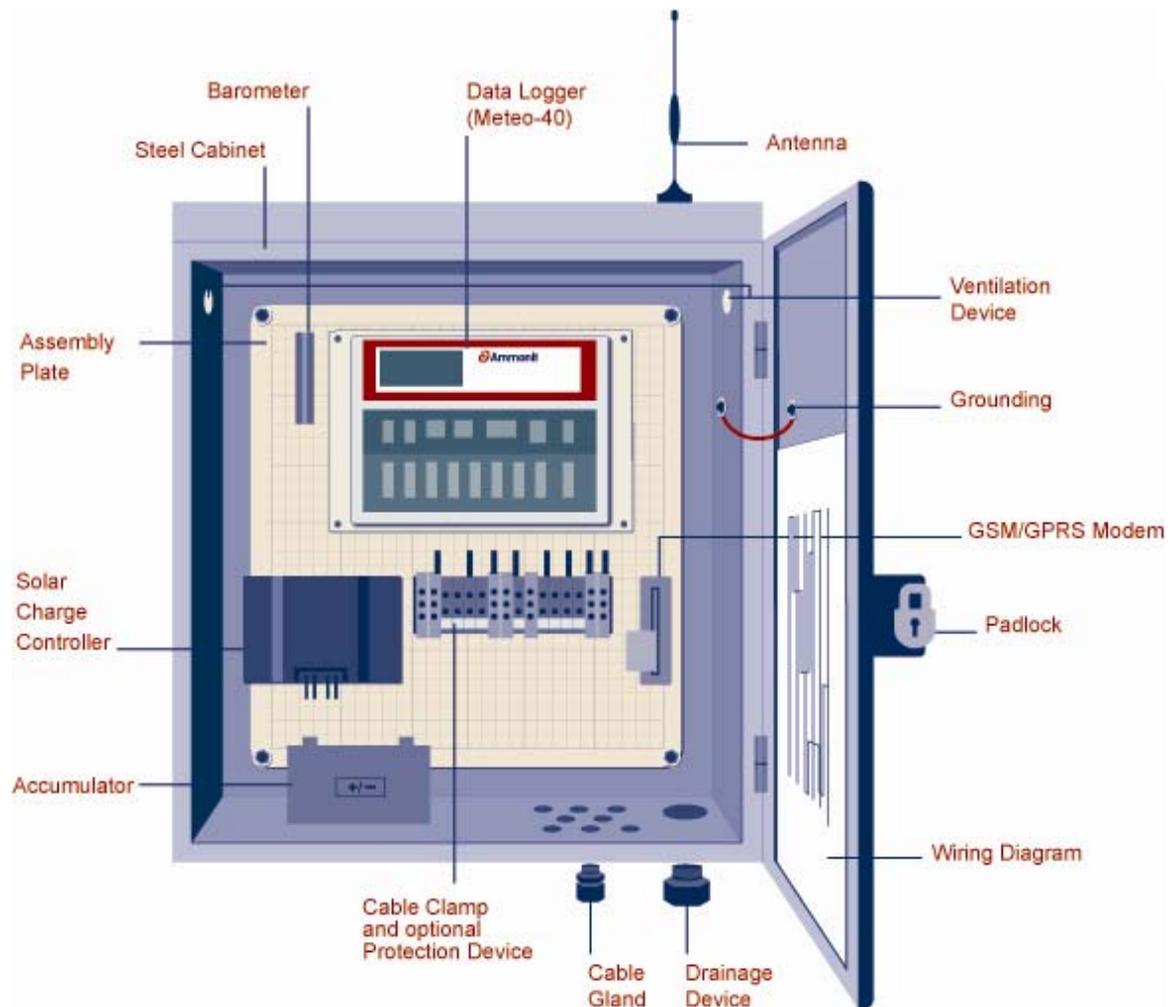Two configurations: Meteo-40 L (large) & Meteo-40 M (medium)

Meteo-40 L ~35 channels

Meteo-40 M ~22 channels

Ammonit Data Logger-Meteo 40

Fits into a standard Ammonit steel cabinet

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Application / Outdoors

Ammonit Data Logger-Meteo 40

Application / Outdoors – part 1

- Applicable for:
    - wind site assessment, wind farm monitoring
    - climate research
    - solar assessment & solar monitoring
    - traffic & agricultural meteorology

- Available in two configurations:
    - Meteo-40M (medium) with ~22 channels
    - Meteo-40L (large) with ~35 channels

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Application / Outdoors – part 2

- Suitable for all climates and the remotest regions.

- Self-contained, low maintenance & high performance.

- Designed for the toughest real-world conditions
  and tested in independent laboratories.

- Low power consumption, runs on 50 W solar panels.

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Measurement Technology

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Measurement Technology – part 1

- 2 GB memory: recording of complete 1 sec. original measurement data (approx. 1 year with typical number of sensors).

- Additional storage of aggregate data (min. 3 years).

- Many channels: ~22 (Meteo-40M) and ~35 (Meteo-40L), differential measurement.

- High resolution (~16 bit, ~8 Hz): symmetric, differential analog channels, various input ranges to choose from (±0.1V, ±1V, ±10V).

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Measurement Technology – part 2

- High sensitivity analog input: e.g. temperature sensor PT 100.

- Digital channel for smart sensors such as the Thies TMR vane:
  no mechanical wear, higher precision.

- Counter channel with AC input support allows for a combination of
  high quality Thies sensors with cheaper sensors, e.g. NRG sensors
  without adapter.

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Communication

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Communication

- Data communication and data exchange via HTTPS, FTP, SCP connection and email.

- Modem: GSM / CDMA / GPRS, (RS-485 / RS-232); 3 USB slots for PC-connections; adapter: WiFi, Ethernet or memory stick.

- UMTS & Bluetooth will be offered at a later stage.

- Compatibility with all SCADA systems.

- Easy connections to computer via USB cable or remote via the internet.

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Flexibility / Convenience

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Flexibility / Convenience - part 1

- Integrated Linux-system for maximum flexibility and adaptibility.

- 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).

- Web based access without the need for additional software.

- User-friendly web interface and large LC display for autonomous applications.

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Flexibility / Convenience - part 2

- Multi-lingual configuration; Meteo-40 settings can be adjusted to
  a language of your choice: English, Spanish, German, French, Chinese.
  Additional language options will be added at a later stage.

- Accessible, modern product design.

- Custom software provided by Ammonit, on request.

- Optional: digitally signed and encrypted measurement data
  to prevent data falsification.

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Channel Options:

Overview Channels	Meteo-40 M	Meteo-40 L	Applications
Switches	4	8	Sensor supply, relais (for heating)
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 ± 0.1V, ± 1V, ± 10V	12 16-bit ± 0.1V, ± 1V, ± 10V	Potentiometric Wind Vane Meteo Sensors Barometers Hygro-Thermal Sensors Pyranometers
Analog Current	1 16-bit ± 20 mAmp	2 16-bit ± 20 mAmp	PT 100 Thermometer

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User-Interface

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Preview User-Interface: Email Communication

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Preview User-Interface: Analog Input Channels

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To learn more contact us at: info@ammonit.com
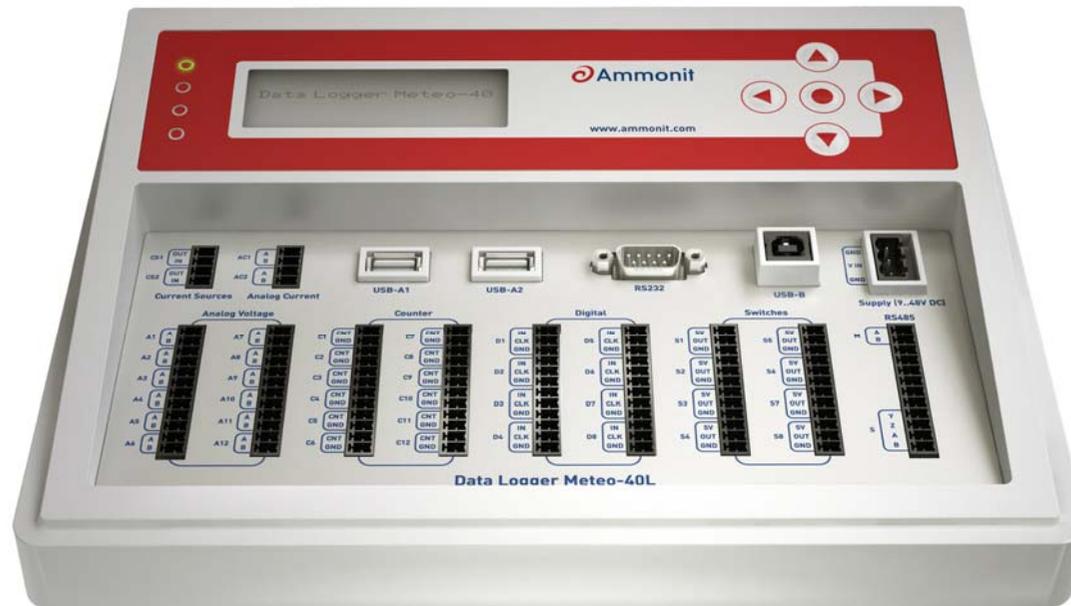
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Author: Ammonit, September 2010