



Avisaro Data Logger Box - Series 4.0

Product family overview information

The Avisaro Data Logger captures data from a wide range of industrial interfaces and stores those on a USB memory stick. Product versions for digital interfaces like CAN, RS232, RS485, IO-Link and for analog interfaces such as 4..20mA and 10V signals are available.

Data can be stored as text or binary format - xml or html when applicable. Format options like 'time stamping' are added using an easy to use PC configuration tool. To retrieve data, the USB stick is read directly with any PC. Optional WiFi, UMTS or Ethernet are available to transfer data seamlessly via FTP or into the cloud.

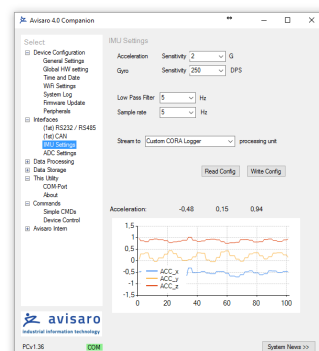
How it works

Connected the logger to the digital, analog or bus interface and apply supply power. The logger works fully self contained without user interaction. All incoming data are formatted or filtered appropriate to the application needs and stored on USB memory.

Data are stored either into one large file, one file per day or split into equally sized files. If storage space is exhausted, either logging stops or a ring buffer scheme removes the oldest data. The data logger runs for days or years.

Configuration

For configuration, the data logger is connected via micro USB cable to a PC. A 'no manuals needed' Companion Software is provided free of charge to perform the powerful configuration settings. For selected interfaces, a live view is provided for testing.



Built-in, value added features

- „Real-time clock“: for time stamping and event triggering. Keeps time & date while no power supply.
- “Zero-boot“: logger starts within less than a second for instant data logging right after power on.

Power, dimensions and environmental ²⁾

- Power supply: 6..32 V, ~0.5 W power consumption
- Dimensions: 8,3 x 8,0 x 3,0 cm (one story high). Din rail fitting available, no ingress protection class
- Weight: ~110 g
- Temperature: -30 to 85 °C (check USB stick restrictions)

Basic product versions

- M43324: two CAN bus ports for CAN A/B and up to 1 Mbit/s. CAN ID filter. Raw CAN or CAN Open protocol.¹⁾
- M41124: two RS232 interfaces for up to 1 Mbit/s, 7/8 bits and typical parity and stop bits.
- M42224: two RS485 interfaces for up to 1 Mbit/s. Support for raw data and Modbus protocol.¹⁾
- M47724: four 4..20 mA current loop analog channels. Up to 1kHz sampling rate, 16 bit resolution.
- M49924: four 0..10V analog voltage inputs.
- M44434: ethernet interface.

Interface extension boards

Additional interfaces can be added using stackable extension boards:

- Precision analog inputs: 0..10mV or 0..5V, 24 Bit, programmable gain
- Temperature (PT100, P1000)
- Additional bus interfaces (CAN, RS232, RS485, IO-Link)
- Sensors: GPS, motion sensor (9DOF)



WiFi and Cloud connectivity

Optional build-in WiFi module for data upload to FTP server or cloud. 'Store and upload later' or live data stream. Connects to existing networks or with mobile devices.

USB storage

USB sticks with up to 128 GByte. Industry standard FAT32 file system. Build-in precautions to protect for sudden power outage failures.

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¹⁾ Available soon

²⁾ Depends on configuration

³⁾ Powered by ChibiOS embedded operation system