



## Avisaro Data Logger Box 2.0

### M2R933: with RS232 interface and ethernet

This data logger records RS232 data on a SD-Card. Via interface or using a PC with SD card slot recorded data can be read. This logger can actively ask for data by its script which is a little program. It as well can 'sniff' in reading the information that is passing a line. Using the ethernet interface you have full access to the memory card using ftp.

#### General features

- One RS232 interface
- One Ethernet interface
- Slot for SD cards (up to 16 GByte)
- Real-time clock with buffered power
- Programming logic for individual functions

#### Scripting

The logger is using small programs to control the process which can be easily adapted to the individual needs. This program – called 'script' – is written in a modified language based on Basic (see Avisaro Webpage [www.avisaro.com/tl/docu-home.html](http://www.avisaro.com/tl/docu-home.html) for guidance). Samples of standardized script functions are as follows:

- Recording of data
- Endless recording in a loop
- Time stamp adding to the data
- Uploading the data

Avisaro delivers this logger in a ready-to-use status loaded with the basic script MR1: recording from RS232 interface to SD card.

#### Command interface

Alternatively commands can be sent via the WAGO connector if the connected data source needs to rule the logger itself. Using this command interface data can, for example, be written or deleted and new files can be created. Then the script must be inactivated.

#### Mechanical data:

Dimensions: 51 x 72 x 24 mm, Weight: 70 g  
Max. Temperature: -30°C - 85°C (if the used SD card does not make any further constraints)

#### Interface: RS232

Two RS232 interface

Baud rate: 1200 bit/s to 1 Mbit/s

7/8 data bits

RTS/CTS and XON/XOFF flow control

The configuration of the interface can be changed accordingly.

#### Interface: Ethernet

Standard Ethernet interface on RJ45

#### Connector: one WAGO ports

The box comes with two WAGO connector (type 734), the pin layout is as follows:

1.) Clear To Send (CTS):

Client is ready to receive data

2.) Request To Send (RTS)

Avisaro wants to send data

3.) Receive (RxD) Data going to Avisaro Box

4.) Transmit (TxD) Data going to device

5.) Supply voltage (6 - 32 V)

6.) Supply and Signal Ground (GND)



#### Power supply

Supply voltage: 6V-32V, consumption: ~ 0.5 W, reverse protection, Power Save option, Buffer length for real-time clock: appr. 1 month (charging time: appr. 48h).

For further information and updates see also the webpage of Avisaro AG: [www.avisaro.com](http://www.avisaro.com). The product is for professional use only. Read product manual carefully.

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