

# Avisaro Data Logger Cube 2.0

## M21766: with RS232 interface

This data logger records RS232 data on a SD-Card. The recorded files can be read via interface or using a PC with SD card slot. This logger is able to actively ask for data as well can 'sniff' in reading the information that is passing a line.

### General features

- One RS232 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
- Sniffing one way

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 interface 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.

### Mechanical data:

Dimensions: 98 x 64 x 34 mm, Weight: 158 g  
 Max. Temperature: -30°C - 85°C (if the used SD card does not make any further constraints)  
 Protection class of the box: IP66 (dust/weather)  
 Card slot is underneath the cover fixed by screws.



### Interface: RS232

One 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.

### Connector: screw terminal

A weather and dust resistant cable feeder lead to a screw terminal layouted as follows:

- 1.Signal Ground (GND)
- 2.Internal use (\*)
- 3.Clear To Send (CTS):  
Client is ready
- 4.Request To Send (RTS):  
Avisaro has data
- 5.Receive (RxD) Data going to Avisaro Box
- 6.Transmit (TxD) Data going to device
- 7.Supply Voltage (6-32V)
- 8.Supply Ground (GND)



(\*) This pin provides 5V power supply to power sensors placed inside the Cube

### 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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