

Data Logger with GPRS/GSM connectivity

G21766: with RS232 interface

G23766: with CAN Bus interface

G22766: with RS485 Bus interface

G27766: with 2x 4..20mA current loop interface

This data logger records data from an industrial bus interface (RS232, CAN, RS485, 4..20 mA) to a SD memory card. Data stored on SD card can be read with any PC. Using the build-in GPRS mobile service modem, data also can be uploaded to a server in the Internet. This is typically a FTP server, but also any other html or proprietary server.

Data formatting is defined very flexible by means of a build-in scripting language. This also provides the capability to send out data i.e. to request data from a sensor.

General features

- One data interface (RS232, CAN, RS485)
- GPRS modem (service subscription not included)
- Slot for SD cards (up to 16 GByte)
- Real-time clock with buffered power
- Programming language for individual functions

Scripting

The logger is using small programs to control the functionality. Various 'scripts' are available ready to use, but also can be easily adapted to individual needs. Syntax of those Scripts is similar to the Basic programming language. See documentation for details. Data Logger is shipped with FTP Upload script.

GSM/ GPRS specification

- Quad Band (Europe, North America, ~ World)
- Connection type: permanent or dial-in
- Internal antenna (external antenna as option)
- SMS functionality (i.e. alert sending)

SIM card handling

Standard size SIM cards are used. SIM card and a mobile data service plan are not included. To insert the SIM card, the main circuit board needs to be unscrewed and lifted. This needs to be done by a skilled technician.

Mechanical data:

Dimensions: 98 x 64 x 34 mm, Weight: 180 g

Max. Temperature: -20°C - 65°C (SD card or SIM card might be limited to lower ranges)

Protection class of the box: IP66 (dust/weather)

Card slot is underneath the cover fixed by screws. To extract the SD memory card, lid needs to be unscrewed.



Interface: RS232

Baudrate: 1200 to 1 Mbit/s, 7/8 data bits & ('9th bit)

Flow control: RTS/CTS and XON/XOFF

Interface: RS485

Baudrate: 1200 to 1 Mbit/s, 7/8 data bits

Interface: CAN

Baud rate: up to 1 Mbit/s (max. average writing speed to the card 300 kbit/s), Message format 2.0A and 2.0B, "Listen Only" mode, no terminating resistance

Interface: 2x times 4..20mA current loop

Galvanic isolated, 16 bit conversion (+- 0.1%), adjustable sampling rate

Connector: Screw terminal

A weather and dust resistant cable feed leads to screw type terminals.



No.	RS232	CAN	RS485
1	Signal Ground (same as supply ground)		
2	n.c.	n.c.	n.c.
3	CTS	n.c.	n.c.
4	RTS	CAN-L	RS485 'B'
5	RxD	CAN-H	RS485 'A'
6	TxD	n.c.	n.c.
7	6-32V Supply		
8	GND Supply Ground		

n.c. : do not connect

Power supply

Supply voltage: 6V-32V, power: 0.9 to 3.6 W, reverse protection, Power Save option, Buffer length for real-time clock: appr. 1 month (charging time: appr. 48h)

Optional: external antenna connector

FME(m) connector for external GSM antenna.

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For further information and updates see also the Avisaro webpage: www.avisaro.com (English) or www.avisaro.de (German). The product is for professional use only. Read product manual carefully.

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