

DD-Logger

- ▶ Universal data logger for RS232 connection to data source
- ▶ Recording of ASCII data without using a specific communication protocol
- ▶ PC tool to initialize the PC Card and to transfer the recorded data to a PC under Windows
- ▶ ATA Flash PC Cards as removable and flexible storage media
- ▶ Easy handling and installation
- ▶ Robust, compact and cost-saving
- ▶ Temperature range -40 °C to +85 °C



Fields of Application

Memory Cards are used as universal, flexible and reliable media to exchange data between devices and PCs.

DD-Logger is an intelligent and universal data-logger for the serial interface which uses ATA Flash Cards from 32 MB to 2 GB as storage media. The device can be used wherever a data source can send ASCII data, e.g. to a protocol printer:

- ▷ Machines and controls (PLC)
- ▷ Industrial vehicles with data acquisition
- ▷ Measurement devices

Flexible Use

DD-Logger does not depend on a specific communication protocol. The retrieved data are stored – irrespective of the operating system – without being changed and can be processed later on a PC.

The storage medium can be removed for data transfer or new initialization. The data can be stored either in a circular or in a linear memory mode.

In circular mode the oldest data are overwritten when the end of memory is reached. In linear mode the recording stops when the memory is exhausted.

High Data Security

Special care has been taken to achieve a high level of data security by use of a checksum mechanism.

After an interruption, e.g. caused by a power fail interrupt or PC Card change, the data recording automatically restarts.

DD-Logger Manager

The configuration of a recording and the readout of data can be done comfortably with the Windows program **DD-Logger Manager**¹⁾.

DD-Logger Manager supports all basic functions as initialization of the Memory Card for recording (**Init-Card**) and data transfer from the Card to the PC (**Read-Card**).

In addition, general parameters for recording can be defined, e.g. baud rate and memory organization (**linear** or **circular memory**). These parameters are stored on the Memory Card and are observed by the DD-Logger. Also the readout format can be configured (**ASCII** or **binary**).

The data transfer can occur either via the serial interface of the DD-Logger and a PC COM port (115,200 Baud), or by using the separately available PC Card reader CSM OmniDrive. The OmniDrive can be connected to a PC via USB.

¹⁾ **System Requirements:**
Windows Vista, XP, 2000, NT 4.0 or 9x/Me

Specification DD-Logger

Item	DD-Logger RS232 with Front Cover ¹⁾	
Case Dimensions (W x H x D) Weight	External box 109 x 35 x 176 mm approx. 430 g	
Power Supply	Device types: 5 V DC ²⁾ or 8-32 V DC via 2-pole low voltage connector	
Power Consumption ^{3) 4)}	Device type 5 V DC: typ. 300 mW (without PC Card) typ. 500 mW to 750 mW ^{3) 4)} (with PC Card)	Device type 8-32 V DC: typ. 500 mW (without PC Card) typ. 800 mW to 1200 mW ^{3) 4)} (with PC Card)
Interface Lines	Baud Rate, Data Bits, Stop Bits, Parity selectable max. 115,200 Baud (115.2 k, 57.6 k, 38.4 k, 19.2 k, 9.6 k ... Baud)	
Connector	D-SUB 9-pin female	
PC Card Slot	one slot for PC Card type II at front	
PC Card Types	ATA Flash Card Type II, ATA Compact Flash Card (with adapter)	
LED Indicators	operation: POWER (green LED), access: BUSY (red LED)	
Environment	-40 °C to +85 °C (operation and storage) humidity max. 90 % (non-condensing)	
Conformity	CE	

¹⁾ **please ask:** other mechanical versions, e.g. 3,5", 19", PCB-module

²⁾ **please ask:** power supply via wall power supply

³⁾ **Measurement** with CSM SuperStore ATA Flash Card

⁴⁾ The power consumption depends significantly on the used ATA Flash Card. In case of using CSM SuperStore Flash Cards you get typ. 550 mW (5 V) or 880 mW (8-32 V).

Shipping Contents:

- **DD-Logger** device with installation hints
- **RS232 cable** to connect DD-Logger to PC
- **Power Supply Cable** (end open) for device type 8-32 V DC or adapter (USB, MDIN-PS2) for device type 5 V DC
- **CD** with DD-Logger SDK for Windows Vista, XP, 2000, NT 4.0 or 9x/Me

Additional Products:

- **OmniDrive USB2 Professional** universal PC Card Reader for USB2 interface for data exchange with PCs
- **PC Card Manager** for use with OmniDrive: inspect and repair tool for ATA media
- **SuperStore Industrial Memory Cards**

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