DataSafe

- ***DataSafe* is a modern data recorder with integrated protection against data manipulation**
- **Data and event registration in security systems**
- **PC Windows application for data displaying, collecting, archiving, searching and printing**
- **Replacement for approved protocol printers**
- **Uses ATA Flash-Cards as removable and flexible storage media**
- **Easy handling and installation**
- **Robust, compact and cost-saving**
- **Operating temperature: - 40 °C to +85 °C**



DataSafe is a modern and **cost-effective** alternative to formerly used protocol printers, wherever in **security systems** data and events have to be recorded **traceably** and with protection against manipulation.

Instead of manually searching for interesting data in endless printer outputs, now **PC systems** can **efficiently** be used for this purpose.

File management under Windows provides optimal and reliable archive and back-up possibilities.

Typical Data Sources

- **Burglary alarm systems**
- **Failure detection systems**
- **Fire prevention alarm systems**
- **Access control systems**
- **Surveillance of buildings and facilities, e.g. patrol registration**

BSI

The system ***DataSafe*** with the software *DataSafe Manager* complies with the requirements of the **BSI**[1] for event-/ background recording in alarm control centers.

Identification of the application and **protection against data manipulation** are realized as key features.

DataSafe device

DataSafe can directly be connected via RS232 to the data source instead of for instance a protocol printer.

The **data communication** is **compatible** with the so called **B-Protocol**[2].

ATA Flash Cards are used as data storage media. Depending on the resulting data amount, a suitable card can be chosen between 32 MB and 2 GB in order to adapt the recording period to the maintenance period of the security system.

DataSafe uses a RS232 control line to inform the data source of a remaining memory capacity of less than 10 %.

The low power consumption of ***DataSafe*** allows operation even with an emergency power supply.

[1] Bundesamt für Sicherheit in der Informationstechnik (German Federal Office for Security in Information Technology)

[2] Industrial standard, supported by protocol printers

DataSafe Manager (DSM)

For handling and data management a **32-bit Windows application**[3] is provided.

This tool supports all main functions, like

- preparation of the ATA Flash Card for data recording (**Init-Card**)
- data transfer from card to file (**Read-Card**)
- **display** of a document containing saved data
- **search** for specific text in the document and
- generation of a **printout** of this document.

ASCII Export

For the use of the data in other applications, a special function is available which stores the data in a file in ASCII-format.

These data may be read by or imported in many software tools and may be used for documentation, statistics or other helpful applications.

PC Card Drive

For the data exchange between ATA Flash-Card and PC a **PC Card Drive** is needed. For this purpose the CSM **Omni*Drive*** is highly recommended. It is optimally qualified and easy to use.

Alternatively, for low-cost applications the *DataSafe* device can be used in a special mode that allows direct data transfer via the a PC COM-Port interface.

For readout of the data the *DataSafe* has to be disconnected from the data source, connected with a PC and installed there. However, the high data transfer rate of Omni*Drive* can not be reached with *DataSafe*.

Specification DataSafe

Item	DataSafe device as external box with front cover[1)]	
Dimensions (W x H x D)	109 mm x 35 mm x 176 mm	
Weight	approx. 430 g	
Power Supply[2)]	**5 V DC** [2)] or **8 - 32 V DC** via 2-pole low voltage connector	
Power Consumption[3)]	Device type **5 V DC:** approx. 300 mW (without PC Card) approx. 500 mW to 750 mW[3)] (with PC Card, write access)	Device type **8-32 V DC:** approx. 500 mW (without PC Card) approx. 800 mW to 1200 mW[3)] (with PC Card, write access)
RS232 Interface	baudrate, databits, stopbits and 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-pole 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)	
LEDs	operation: POWER (green LED) / access: BUSY (red LED)	
Temperature	**- 40 °C to +85 °C** (operation and storage)	
Humidity	max. 90 % (non condensing)	
Conformity	CE	

[1)] **please ask for:** other mechanical versions, e.g. 3.5", 19", PCB-module
[2)] **please ask for:** an optional AC adapter, or power supply from PC via keyboard adapter, instead power supply from data-source
[3)] 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 Content:

- ***DataSafe***
  in external box, with Installation Guide
- ***Power Supply Cable***
  (2nd end open) to supply DataSafe from data source
- ***CD*** with ***DataSafe Manager***
  and detailed Windows-Help-File

Additional products:

- ***OmniDrive USB2 Professional***
  Universal PC Card Reader for USB 2.0 interface for data exchange with PCs
- ***ATATOOL*** (in conjunction with Omni*Drive*)
  Software tool for analysis and recovery of ATA Flash Cards
- ***CSM SuperStore ATA Flash Card***