OmniScale

► **Modern data recorder to be connected to data sources via RS232 interface line**

► **PC Windows application for collecting, archiving, searching and printing of data under legal control**

► **Replacement for Alibi Printers under legal control**

► **PTB Test Certificate D09-00.12**

► **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**

OmniScale is a modern alternative to the traditional alibi printer, whenever data has to be recorded, archived, searched and printed out under legal control.

Instead of manual 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

▷ **Weighing terminals and scales**

▷ **Mix or dose units**

▷ **Bottling plant**

▷ **Liquid volume metering instruments e.g. filling stations**

▷ **Many other data sources**

Validated as legal metrology device

OmniScale System is authorized by the **PTB**[1] as a device under legal control according the **directive 90/384/EEC** (Non-automatic Weighing Instruments). It fulfils the conditions described in the **WELMEC**[2] guidelines for such systems.

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

OmniScale device

OmniScale can directly be connected via RS232 to the data source instead of an alibi printer.

The **data communication** is **compatible** with the so called **B-Protocol**[3].

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.

The memory can be configured as **one-time memory or as ring memory.** Activating the ring memory *option*, the data recording is not stopped after reaching the memory's end, but the oldest data is overwritten.

Hence, a well-defined amount of data sets and recording duration is available. Old and no longer needed data will automatically be deleted.

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[1] PTB: Physikalisch Technische Bundesanstalt Germany
[2] WELMEC: Western European Metrology Cooperation

[3] Industrial standard, supported by alibi-printer.

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CSM

OmniScale Manager (OSM)

For handling and data management a **32-bit Windows application**[4] is available.

This tool supports all main functions, like

- preparing the ATA Flash-Card for data recording (**Init-Card**)
- data transfer from Card to file (**Read-Card**)
- **display** of a document containing saved data
- **searching** for specific text in the document and
- producing 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 *OmniScale* 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 *OmniScale* 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 *OmniScale*.

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[4] **System requirements:**
Windows 8, 7, Vista, XP, 2000, NT 4.0 or 9x/Me

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Specification OmniScale

Item	OmniScale device as external box[1]	
Dimensions (W x H x D)	109 mm x 35 mm x 164 mm (176 mm) [2]	
Weight	approx. 430 g	
Power Supply [3]	**5 V DC** [2] or **8-32 V DC** via 2-pole low voltage connector	
Power Consumption [4]	Device type **5 V DC:** approx. 300 mW (without PC Card) approx. 500 mW to 750 mW [4] (with PC Card, write access)	Device type **8-32 V DC:** approx. 500 mW (without PC Card) approx. 800 mW to 1200 mW [4] (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 or front cover
[2] depth with front cover
[3] please ask for: an optional AC adapter, or power supply from PC via keyboard adapter, instead power supply from data-source
[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 Content:

- *OmniScale*
  in external box, with Installation Guide

- *Power Supply Cable*
  (2nd end open) to supply OmniScale from data source

Downloads:

- *OmniScale 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*

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