

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
- ❑ Temperature range: - 40° .. + 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 **PTBⁱ** as a device under legal control according the **directive 90/384/EEC** (Non-automatic Weighing Instruments). It fulfills the conditions described in the **WELMECⁱⁱ** 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-Protocolⁱⁱⁱ**.

SanDisk ATA Flash-Cards are used as data storage media. Depending on the resulting data amount, a suitable card can be chosen between 8 MByte and 1.2 GByte.

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.

OmniScale Manager (OSM)

For handling and data management a **32 Bit Windows application^{iv}** is provided.

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.

ⁱ PTB: Physikalisch Technische Bundesanstalt Germany

ⁱⁱ WELMEC: Western European Metrology Cooperation

ⁱⁱⁱ Industrial standard, supported by alibi-printer.

^{iv} System requirements: PC with Microsoft Win 95/98, Win NT 4.0 or Win 2000 and sufficient memory capacity

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 **OmniDrive** 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.

The *OmniScale* device has to be shared from both, the data-source and the PC. However, the high data transfer rate of OmniDrive can not be reached.

Specification OmniScale

Item	OmniScale as external box ¹⁾
Dimensions Weight	109 (W) x 35 (H) x 164 (D) mm approx. 430g
Power Supply ²⁾	5 V DC via walkman connector 3.5mm tolerance: -2.5% / +5% (4.875V to 5.25V)
Power Consumption	approx. 60 mA (no PC Card) approx. 160 mA (with SanDisk ATA Flash Card)
RS232 Interface	baudrate, databits, stopbits and parity selectable max. 115,200 Baud (115.2k, 57.6k, 38.4k, 19.2k, 9.6k ... Baud)
Connector	D-SUB 9-pol female
PC Card Slot	one slot for PC Card Type III at front
PC Card types	ATA Flash Card SanDisk (type II and type III), ATA Compact Flash SanDisk (with adapter)
LEDs	operation: POWER (green LED) / access: BUSY (red LED)
Environment	- 40°C to + 85°C (operation and storage) humidity max. 90% (non condensing)
Conformity	

¹⁾ please ask for: other mechanical versions, e.g. 3 1/8, 19", PCB-module or protection cover for PC Card Slot

²⁾ please ask for: an optional AC adapter, or power supply from PC via keyboard adapter, instead power supply from data-source

Shipping Contents:

- **OmniScale**
in external box, with Installation Guide
- **Power Supply Cable**
(2nd end open) to supply OmniScale from data source
- **Disk** (3 1/2") with:
OmniScale Manager
and detailed Windows-Help-File

Additional Products:

- **OmniDrive**
Universal PC Card drive for PC printer port (SPP and EPP), for data interchange with PCs.
- **ATATOOL** (in conjunction with OmniDrive)
Software tool for analysis and recovery of ATA Flash Cards.