

UPC_2000

The further development of the M+F UPC_2000 for digital logging and archiving of calibration-relevant data

The UPC_2000 enables digital storage and archiving of measurement data and replaces conventional archiving on paper. This not only conserves resources, but also makes important data conveniently available at any time. With the optional UPC_Datahub, we also offer a platform for creating comprehensive analyses, dashboards and KPIs based on the stored data.

The completely revised version of our long-time proven UPC_2000 offers a long-term available industrial hardware base and enables a configurable and plannable upgrade strategy by using the WINDOWS 10 IoT Enterprise operating system.

The main customer benefits are:

- Paperless management of original documents
- Integration in computer networks
- Arbitrarily expandable
- Redundant operation (2x UPC_2000 - optional)
- Convenient search functions - time saving
- Modern data management
- Maintenance and service by M+F also possible via remote access
- Approval according to MID (2014/32/EU) / PTB
- Optimal digital storage and archiving of shipping documents
- Further processing of data for analysis purposes possible, creation of dashboards and KPIs via optional UPC_Data Hub
- Universal operation with connection to commercially available measurement calculators / weighing devices / tank level measurement systems.



↑ UPC_2000 - INDPC

UPC_2000

TECHNICAL DATA / CHARACTERISTICS

Approvals	<ul style="list-style-type: none"> Approval according to MID 2014/32/EU BEV (Austria)
Installation	<ul style="list-style-type: none"> Standard installation of the UPC_2000 is on a M+F industrial PC or rack server. Installation on a provided computer in compliance with the minimum requirements
Dimensions	<ul style="list-style-type: none"> IPC: W:320mm H:164mm D:317mm Rack Server: Rack mount -1U
Power supply	<ul style="list-style-type: none"> 220-240 VAC IPC: Input = approx. 80 W Rack server: depending on the equipment
Operating system	<ul style="list-style-type: none"> IPC: Windows 10 IoT Enterprise - 2019 LTSC Rack Server: MS Windows Server 2019 Essentials 64Bit 1 Serv 1-2 CPU
Software	<ul style="list-style-type: none"> Software: UPC_2000 Logger + Viewer
Equipment*	<ul style="list-style-type: none"> Processor: Celeron G4900 - 3.1 GHz - 2 cores RAM: DDR4 4GB 2666 UDIMM HDD: 2x 1TB, MTBF 1,000,000 h, 24/7 operation * for rack servers: according to current status, at least as indicated above.
NIC	<ul style="list-style-type: none"> 10/100/ 1000 additional TCP/IP on PCI (optional)
Interfaces	<ul style="list-style-type: none"> 1/2/4/8-way Serial DB9, max. 2 cards
Further connections for	<ul style="list-style-type: none"> Mouse and keyboard: USB Monitor: DVI or DP (depending on the device: additionally VGA) Network: RJ 45
Accessories (Standard installation: included in scope of delivery)	<ul style="list-style-type: none"> Keyboard (German or English) Mouse
Minimum requirements for installation on provided computer	
	<ul style="list-style-type: none"> Hardware at least as specified under "Equipment" Housing sealable PCI slots for serial interfaces

UPC_2000

UPC: LOGGER / VIEWER AND DATA HUB

UPC Logger

The UPC_Logger is used to record the data received from a measuring device (e.g. meter) and store it in an encrypted database.

The UPC_Logger replaces the original loading document.

UPC Data Hub (option)

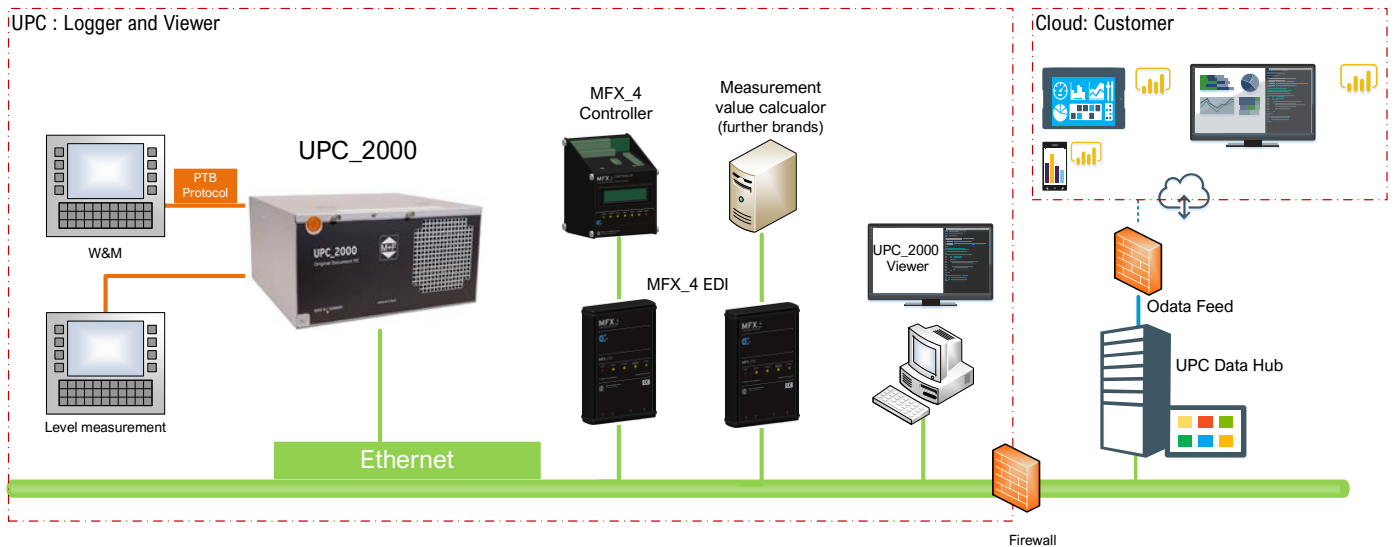
The UPC Data Hub enables data to be made available via a web-based OData interface. Users can access their receipts, filter them as they wish, and perform evaluations and analysts for statistical purposes. No direct database connection is required.

UPC Viewer

The UPC_Viewer is a pure visualization program and is only used to display previously recorded original document data. The UPC Viewer is located outside the measurement data recording. No data can be changed.

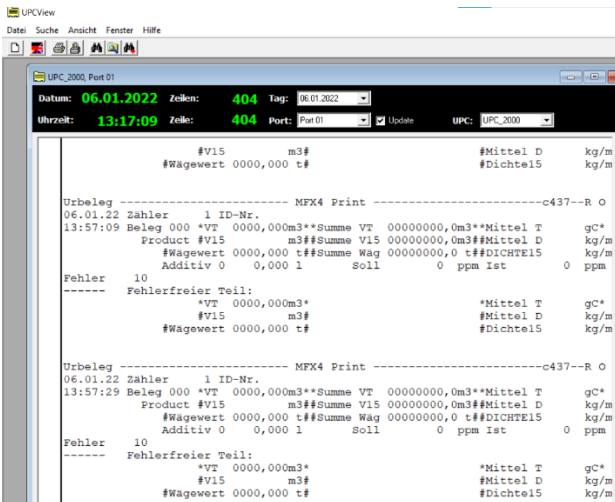
UPC_Viewer can be run on the same computer as UPC_Logger or on one or more separate computers.

The UPC_Viewer can also search the shipping documents using various search criteria.



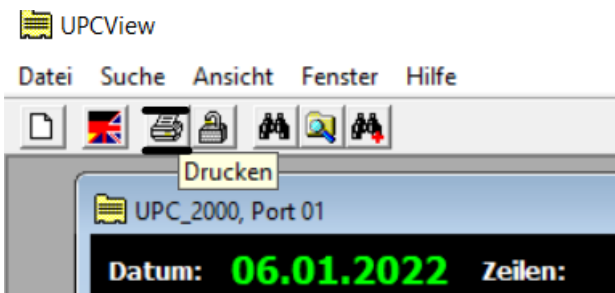
UPC_2000

DESCRIPTION



UPC_Viewer

UPC_Viewer allows legal access to the loading documents without modifying them. The status bar shows the date and time of data generation as well as line number and position. The date of creation of the loading document and the corresponding loading station are displayed on the right side.



Printing the original documents

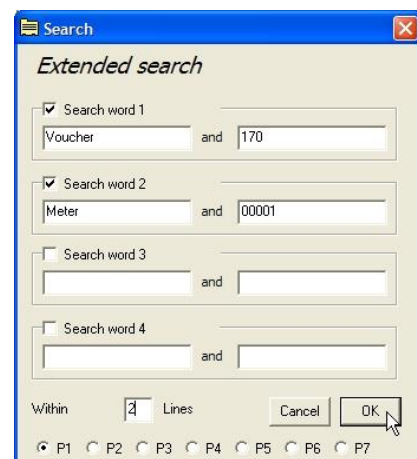
Any original document can be printed on the document printer. After printing, the original document is saved as a "copy" in the data memory.



Loading the original documents

For an original document, the creation date can be selected via the calendar function. In addition, the corresponding counter must be selected.

The original document is now displayed in the form received from the meter.



Search for original documents

A search function offers the possibility to search and display shipping documents by entering a search term.

An advanced search function allows searching for multiple terms at the same time.

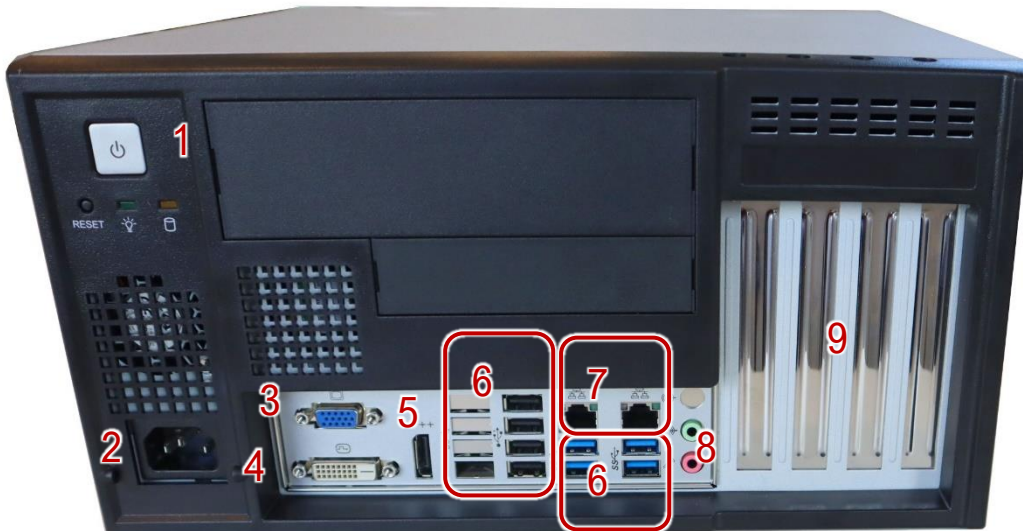
UPC_2000

PRODUCT KEY / OPTIONS

Basic device	INDPC RACK PCKD	Wallmount Industrial PC WIN 10 IOT Enterprise LTSC 2019 Rack Server PC customer provision
Operating system (language)	DEU ENG	Operating system in German Operating system in English
Interfaces	SER0 SER1 SER2 SER4 SER8 SER16	no serial. interface 1 serial interface 2 serial interfaces 4 serial interfaces 8 serial interfaces 16 serial interfaces
Ports	TP0 TP1 TP2 up to max. TP16	no TCP/IP port 1 TCP/IP port 2 TCP/IP ports ... TCP/IP ports 16 TCP/IP ports
License	LIC0 LIC1 LIC2 up to max. LIC16	No channel license 1 channel license 2 channel licenses Licenses 8 channel licenses 16 channel licenses * LIC1-LIC16 incl. 1x UPC viewer
Type of preliminary test	WITHOUT EICH	Without custody transfer test with custody transfer test
Approval	MID BEV4 BEV90 RF WAA	MID BEV Zul. Austria R160 for MFX_4 BEV Perm. Austria R186 for MFX_90 Approval PTB quiescent liquids Scale acc. to D09-03.14 Rev.14
More options	MFX_100 LAN2 LPT REN RAID5 LASER	Adapter for connection MFX_100 Expansion to second network card Parallel interface Redundant power supply (RACK only) Hard disk network (RACK only) Laser printer

UPC_2000

Connections



- | | | | | | |
|---|-----------------------------|---|---------------------|---|---|
| 1 | Power button / Start button | 4 | Monitor (VDVI-D) | 7 | Network connection (TCP/IP) |
| 2 | Power supply connection | 5 | Monitor Displayport | 8 | Audio (Mic-In, Line-out) |
| 3 | Monitor (VGA) | 6 | USB Connections | 9 | Optional: Connectors for additional serial interfaces |

INSTALLATION VARIANTS

Desktop setup



↑ INDPC

Wall mounting



↑ Wallmount

Installation in a server rack



↑ Rack Server