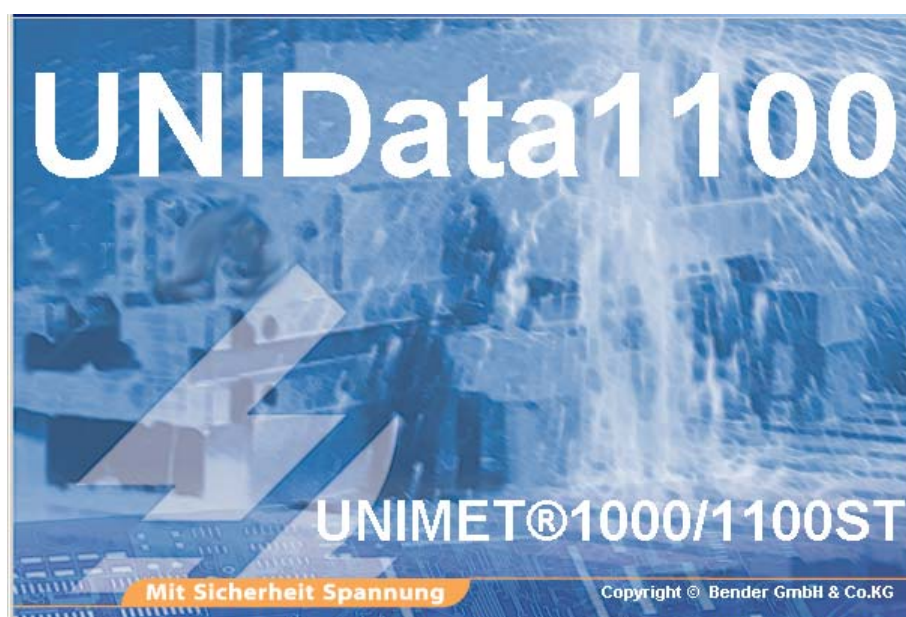


Operating manual



UNIData1100

Data transfer software
for data exchange between
a PC and UNIMET® 1000/1100ST



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1. Effective use of this manual

1.1 About the operating manual

This operating manual describes version 1.00 and higher of the UNIData1100 data transfer software. The functions and processes described may vary from those featured in other versions. In the interest of increased clarity, this operating manual refers only to UNIData or software. It has been designed for skilled personnel working in electrical engineering and electronics.

Please read this operating manual and the enclosed sheet entitled "Important safety instructions for BENDER products". These documents must be kept in an easily accessible location near to the product.

Although great care has been taken in the drafting of this operating manual, it may nevertheless contain errors and mistakes. The BENDER Group cannot accept any liability for injury to persons or damage to property resulting from errors or mistakes in this operating manual.

1.2 Technical support

As a BENDER customer, you will receive technical support and assistance in the event of queries relating to equipment you have purchased. Please contact the technical sales department at BENTRON®.

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1.3 Explanations of symbols and notes

The following terms and symbols are used to denote hazards and instructions in BENDER documentation:



*This symbol indicates an immediate risk to life and limb.
Failure to observe the associated instructions and take appropriate precautions
will result in death, serious physical injury or substantial damage to property.*



*This symbol indicates a potential risk to life and limb.
Failure to observe the associated instructions and take appropriate precautions
may result in death, serious physical injury or substantial damage to property.*



*This symbol indicates a potentially dangerous situation.
Failure to observe the associated instructions and take appropriate precautions
may result in minor physical injury or damage to property.*



*This symbol indicates important information about the correct use of the
equipment purchased.
Failure to observe the associated instructions can result in equipment
malfunctioning or cause problems in the environment in which it is being used.*



*This symbol indicates tips for using the equipment and particularly useful
information. This type of information will help you to optimise your use of the
equipment.*

1.4 Overview of chapters

- Chapter 1: Effective use of this manual
... provides information about using this manual.
- Chapter 2: Safety instructions
... provides information about risks affecting installation and operation.
- Chapter 3: System description and installation
... provides information about the features of the software and describes how
to install UNIData1100.
- Chapter 4: Operation and setting
... contains a comprehensive description of the operating and configuration
functions of UNIData1100.
- Chapter 5: Maintenance and installation
... provides information about backing up data and updating/uninstalling the
software.

2. Safety instructions

2.1 Intended use

The UNIData1100 software has been designed exclusively for use in the area of application described in "Chapter 3. System description and installation".

Any other use shall not be in accordance with its intended use. The BENDER Group shall not be liable for any loss arising therefrom.

Observance of all instructions in this manual is also part of intended use.

2.2 Qualified personnel

Only appropriately qualified personnel may work on BENDER products. Qualified means familiar with the installation, commissioning and operation of the equipment and have and with training appropriate to the work. Such personnel must have read this manual and understood all instructions relating to safety.

2.3 Delivery conditions, guarantee, warranty and liability

As a basic principle, our general conditions of sale and delivery shall apply. BENTRON® provides a guarantee of error-free design and perfect material quality lasting 36 months from date of delivery for UNIData1100 software stored or operated under standard conditions.

For software products, the software clause in respect of the licensing of standard software as part of deliveries, modifications and changes to general delivery conditions for products and services in the electrical industry set out by the ZVEI (Zentralverband Elektrotechnik- und Elektronikindustrie e. V., the German Electrical and Electronic Manufacturers' Association) also applies.

Conditions of sale and delivery can be obtained from BENTRON® in printed or electronic format.

3. System description and installation

3.1 Features of UNIData1100

The UNIData1100 data transfer software is used for data exchange between a PC and UNIMET®1000ST or UNIMET®1100ST via an RS-232 interface. It manages data, enables test protocols to be printed out and can also be used to back up data.

UNIData1100 has the following features:

- Device and type catalogue structure (like Unimet® 1000/1100ST). Test dates are also managed.
- Saving of Unimet® 1000/1100ST device catalogue and/or type catalogue on PC (import).
- Provision of data for periodic testing (extensive selection options). This data can then be forwarded to Unimet® 1000/1100ST (export).
- Printing out of test protocols. Extensive selection options for mail merge. A company name and company logo can be stored for printing purposes.
- Unlimited device and type data volume (restricted only by the size of the PC's hard disk).
- Operation in German or English. Other languages are under consideration. In the German language version of the software, standard designations for Austria deviating from those applicable in Germany can be configured.
- Service utilities can be used to compress, repair and back up the UNIData1100 database.
- Automatic detection of the RS-232 interface settings.

3.2 System requirements

PC system requirements

- IBM-compatible PC, minimum Pentium III processor with 600 MHz, RS-232 interface or USB/RS-232 adapter
- Minimum 128 MB RAM, 256 MB recommended
- Minimum OS Windows® 2000 running SP3 or Windows® XP
- Minimum screen resolution 800 x 600, 256 colours
- Approx. 80 MB free hard disk space (not including data)

Unimet system requirements

- UNIMET®1000ST or UNIMET®1100ST software version 4.20 or higher.

3.3 Ordering data

Type designation	Item no.
UNIData1100	B 9602 0083

3.4 Installing UNIData1100

3.4.1 Prior to installation

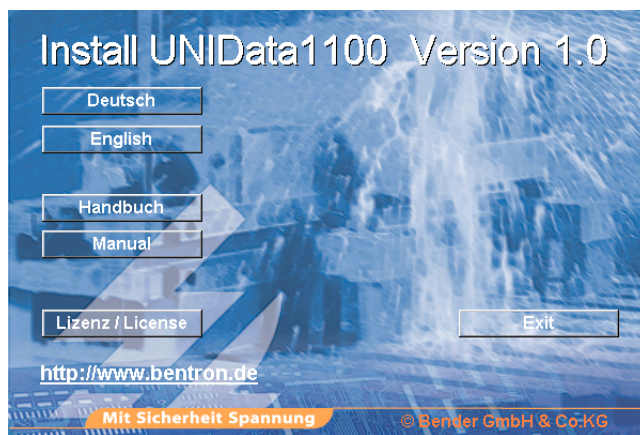
1. Quit all active programs.
2. Insert the "UNIData1100" CD into the CD drive.

3.4.2 The installation process

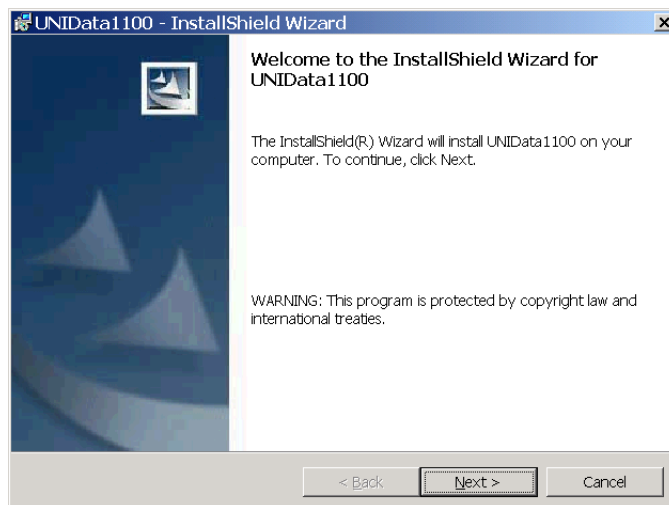
1. Insert the installation CD into the CD drive on your PC. The installation process should start automatically.

If the installation process does not start automatically, you can start it manually by double-clicking on file "CD_Start.exe".

At this point you can also click on "Handbuch" or "Manual" to open the German or English version of the software manual respectively in PDF format.

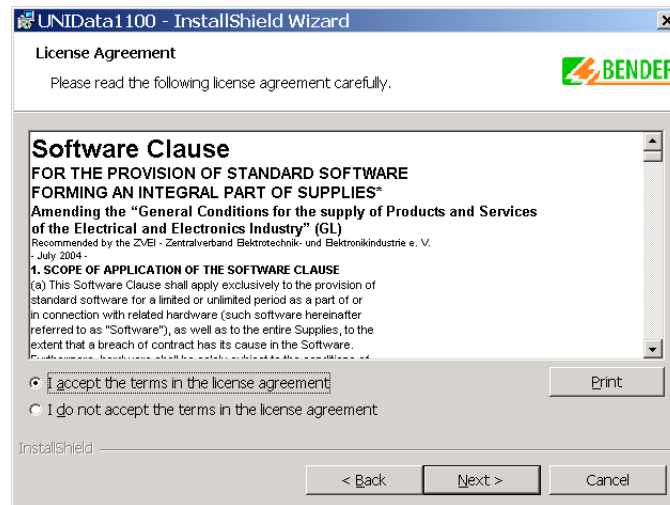


- Select the required language for the installation process (e.g. "English").
2. Installation is being prepared. The installation process starts up (InstallShield Wizard).



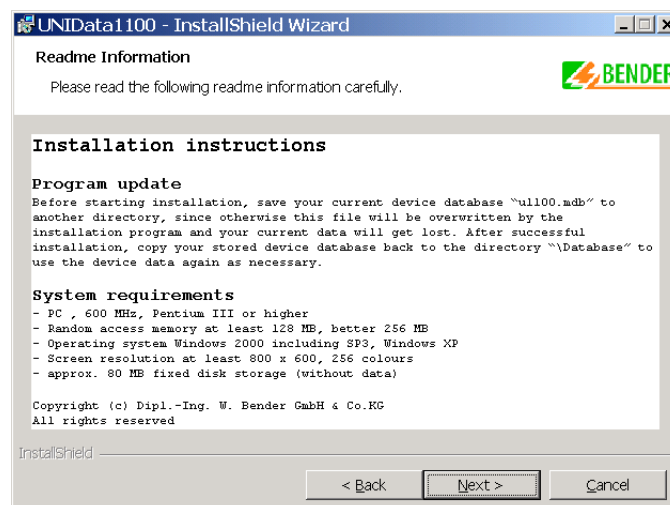
- Click on "Next".

3. The licence agreement appears. You must agree to these conditions in order to be able to install the software.



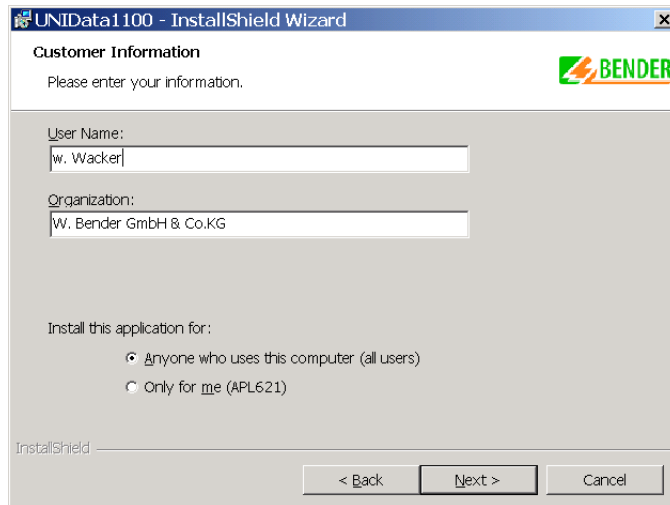
- Click on "I accept the terms in the licence agreement".
- Then click on "Next".

4. A description of the system requirements and what to do in the event of an update appears on the screen.



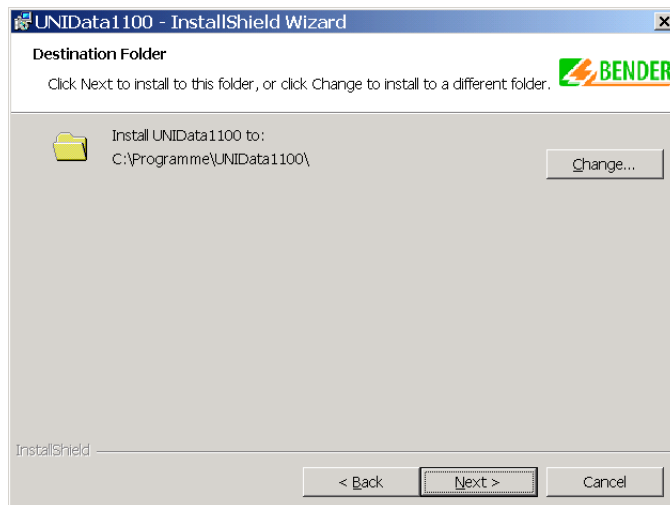
- Click on "Next".

5. Customise the software



- Enter a user name and organisation.
- Then click on “Next”.

6. Select the installation directory. UNIData1100 will suggest a directory.



- Click on “Change” to select a different directory.
- Then click on “Next”.

7. Finalise the installation.

- Check that all entries are correct and then click on “Next”.
- The software can be finalised. Click on “Next”.
- The window you saw on the screen at the start of the installation process appears. Click on “Exit” to quit the installation.
- Quit all programs and restart the PC.

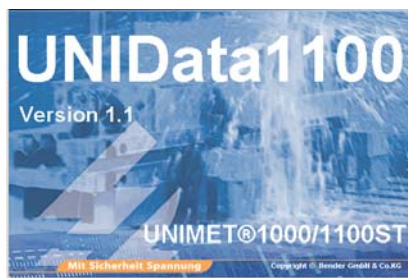
4. Operation and setting

4.1 Setting up UNIMET® 1100ST for data exchange

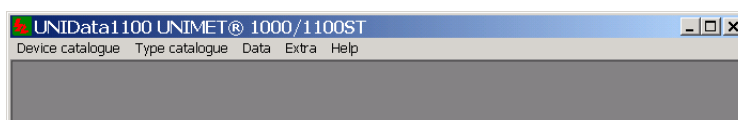
1. Use a null modem cable to connect Unimet® 1000ST or UNIMET® 1100ST to the RS-232 interface on the PC.
2. Switch on Unimet® 1100ST.
3. System settings:
 - Make sure that **no** barcode scanners are logged on.
 - Set the same baud rate as in the software (e.g. 9600 baud).
4. Return to Unimet® 1100ST main menu.
5. Start up the PC software.

4.2 Starting UNIData1100

Click on the Windows “Start” button and select “Programs -> UNIMET® 1100ST -> UNIData1100 V...”. The welcome screen appears.



UNIData is ready for operation. Use the individual pull-down menus to operate the software.

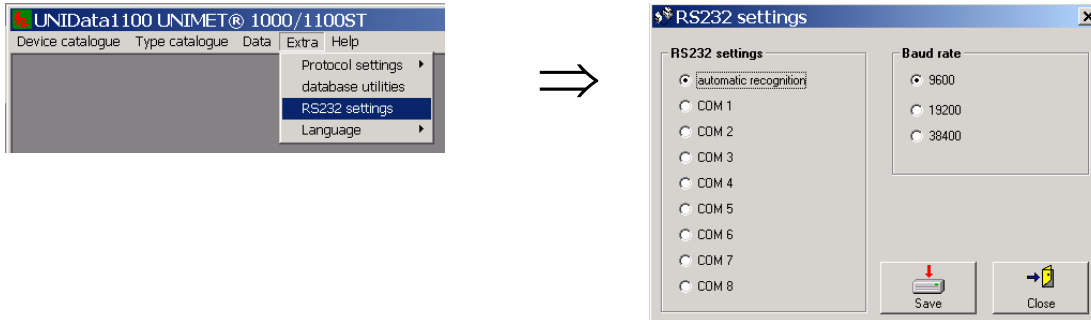


4.3 Getting started

4.3.1 RS-232 settings

The following conditions must be met for successful data exchange:

Make the RS-232 settings as follows:



UNIData1100 is able to detect the COM interface and baud rate used automatically. The “automatic recognition” field is selected by default (factory setting).

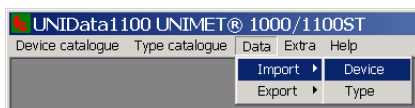
An incompatible hardware configuration on the PC can render automatic detection impossible. In this case you should make the settings manually.

- Set the baud rate in the UNIData1100 software to the same value as in Unimet.
- In UNIData1100, select the COM interface connected to Unimet.

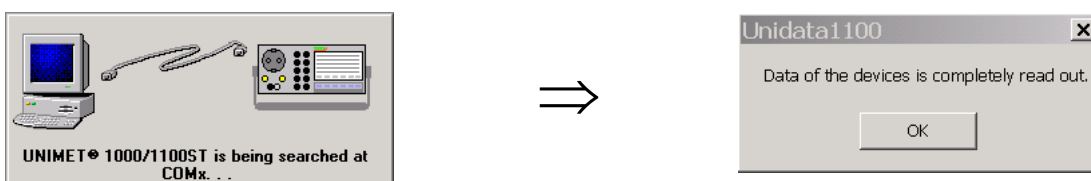
4.3.2 Importing data

UNIData1100 saves and administers data acquired by Unimet. For this purpose, data from the device and type catalogues is imported into UNIData1100.

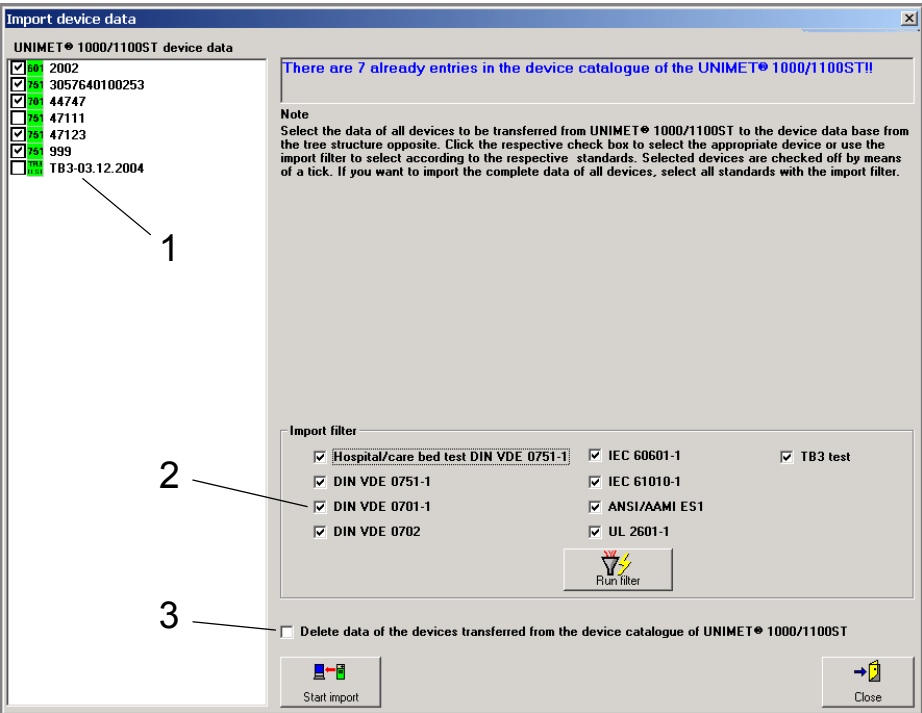
4.3.2.1 Importing data from the device catalogue



UNIData1100 looks for a connection to Unimet and reads out all device data.



You should now select whether to import all devices or only selected devices.

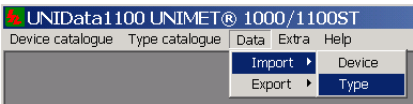


You have the following selection options:

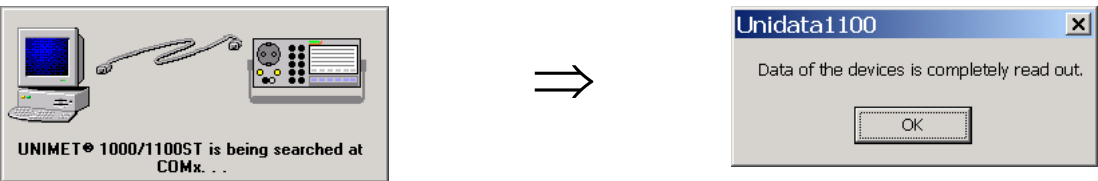
1	Checkmark the boxes associated with the required devices
2	Or, under Import filter, checkmark the boxes associated with the required standards and then click on the “Run filter” button.
3	Once transferred, device data is deleted from the Unimet device catalogue.

Finally, click on the “Start import” button. All selected devices are imported. Data transfer progress is indicated on the screen. Click on the “Close” button to quit the import.

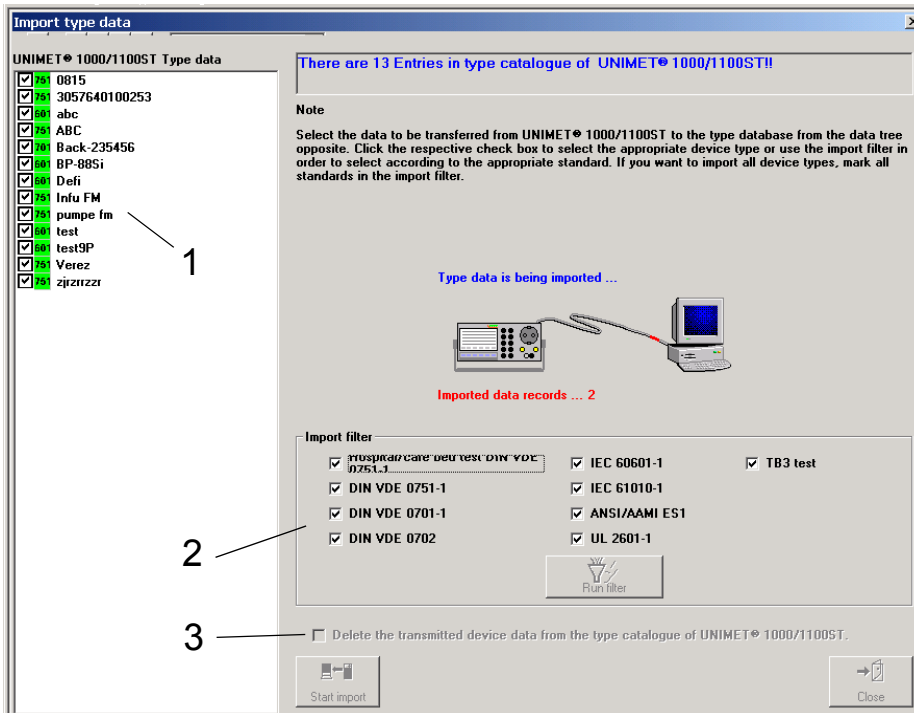
4.3.2.2 Importing data from the type catalogue



UNIData1100 looks for a connection to Unimet and reads out all type data.



You should now select whether to import all types or only selected types.



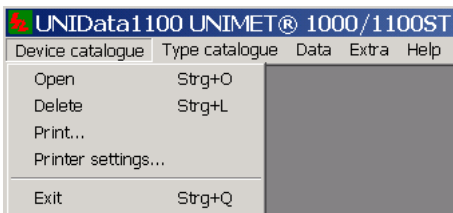
You have the following selection options:

1	Checkmark the boxes associated with the required types
2	Or, under Import filter, checkmark the boxes associated with the required standards and then click on the "Run filter" button.
3	Once transferred, type data is deleted from the Unimet type catalogue.

Finally, click on the "Start import" button. All selected types are imported. Data transfer progress is indicated on the screen. Click on the "Close" button to quit the import.

4.4 Using the device catalogue

The following options are available in the "Device catalogue" menu:

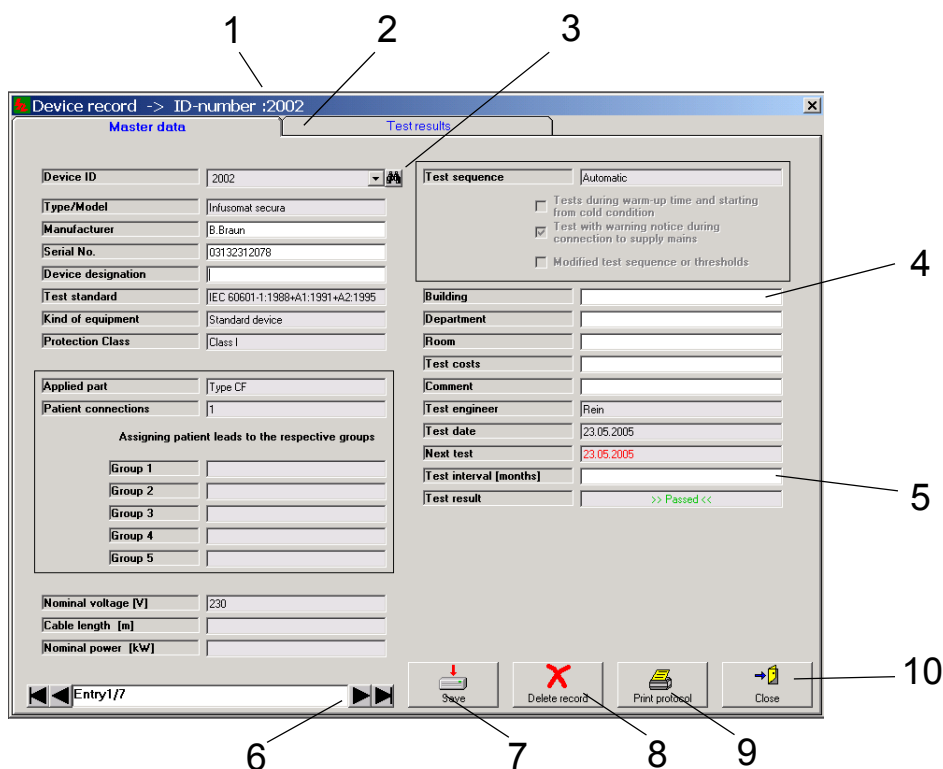


Open	Opens the device catalogue for the purpose of adding, deleting or printing device data.
------	---

Delete	Deletes the entire device catalogue.
Print	Selected test protocols are printed or exported in PDF file format.
Printer settings	The printer settings are defined here.
Exit	Exits UNIData1100.

4.4.1 Opening the device catalogue

When you select “Device catalogue -> Open”, the first entry in the device catalogue appears on the screen.



The screenshot shows the 'Device record' window for ID-number :2002. It has two tabs: 'Master data' and 'Test results'. The 'Master data' tab is active, showing fields for Device ID, Type/Model, Manufacturer, Serial No., Device designation, Test standard, Kind of equipment, Protection Class, Applied part, Patient connections, and Assigning patient leads to the respective groups. The 'Test results' tab shows fields for Test sequence, Test date, Next test, Test interval [months], and Test result. At the bottom, there are navigation buttons (left and right arrows), a 'Save' button, a 'Delete record' button, a 'Print protocol' button, and a 'Close' button.

1	ID number of the displayed entry in the device catalogue
2	Tabs for displaying master data or test results
3	Button to search for ID number
4	Fields with a white background can be added to or modified.
5	UNIData1100 calculates the date of the next test if data is entered in the test interval field.
6	Click on ◀ or ▶ to go to the next or previous entry. Changes must be saved in order to take effect.
7	Saves the current entry (device) following changes or additions.
8	Deletes entry (device). A prompt appears to prevent accidental deletion.
9	Prints or exports the test protocol.
10	Closes the device catalogue.

4.4.1.1 Displaying test results

Click on the “Test results” tab to display the test results for the current device.

Device record -> ID-number :2002

Master data

Test results

Results

Test no.	Measurement	Threshold	Result	Unit	Passed
3	PE resistance, permanently attached cord	0.200	0.002	Ohm	Yes
83	PE measuring current		21.2	A	1
80	Load current		< 0.005	A	1
81	Operating voltage		225	V	1
82	Power consumption		< 0.005	kVA	1
7	Earth leakage current NC	0.500	< 0.001	mA	Yes
11	Earth leakage current SFC AP earthed	1.000	< 0.001	mA	Yes
12	Earth leakage current NC FE earthed	0.500	< 0.001	mA	Yes
14	Enclosure leakage current NC	0.100	< 0.001	mA	Yes
16	Enclosure leakage current SFC PE open	0.500	< 0.001	mA	Yes
20	Enclosure leakage current NC AP earthed	0.100	< 0.001	mA	Yes
21	Enclosure leakage current NC FE earthed	0.100	< 0.001	mA	Yes
22	Enclosure leakage current SFC AP+FE earthed PE open	0.500	< 0.001	mA	Yes
23	Patient leakage current NC	0.010	< 0.001	mA	Yes
25	Patient leakage current SFC PE open	0.050	< 0.001	mA	Yes
29	Patient leakage current NC FE earthed	0.010	< 0.001	mA	Yes
30	Patient leakage current SFC FE earthed PE open	0.050	< 0.001	mA	Yes
31	Patient leakage current SFC U-AP	0.050	< 0.001	mA	Yes
33	Patient leakage current SFC ph. rev. U-AP	0.050	< 0.001	mA	Yes
34	Patient leakage current SFC U-AP FE earthed	0.050	< 0.001	mA	Yes
8	Earth leakage current NC ph. rev.	0.500	< 0.001	mA	Yes
15	Enclosure leakage current NC ph. rev.	0.100	< 0.001	mA	Yes
17	Enclosure leakage current SFC PE open ph. rev.	0.500	< 0.001	mA	Yes
24	Patient leakage current NC ph. rev.	0.010	< 0.001	mA	Yes
26	Patient leakage current SFC PE open ph. rev.	0.050	< 0.001	mA	Yes
32	Patient leakage current SFC U-AP ph. rev.	0.050	< 0.001	mA	Yes
9	Earth leakage current SFC conductor open	1.000	< 0.001	mA	Yes

4.4.1.2 Completing master data

Example for a device with completed master data.

Device record -> ID-number :2002	
Master data	Test results
Device ID: 2002 Type/Model: Infusomat secura Manufacturer: B. Braun Serial No.: 03132312078 Device designation: Infusion pump Test standard: IEC 60601-1:1988+A1:1991+A2:1995 Kind of equipment: Standard device Protection Class: Class I Applied part: Type CF Patient connections: 1 Assigning patient leads to the respective groups Group 1 Group 2 Group 3 Group 4 Group 5 Nominal voltage [V]: 230 Cable length [m]: Nominal power [kW]:	Test sequence: Automatic ☐ Tests during warm-up time and starting from cold condition ☒ Test with warning notice during connection to supply mains ☐ Modified test sequence or thresholds Building: Main building Department: Intensive care II Room: A202 Test costs: 20 Comment: supply cord replaced Test engineer: Rein Test date: 23.05.2005 Next test: 23.11.2005 Test interval [months]: 6 Test result: >> Passed <<

Entry 1/7

Save

Delete record

Print protocol

Close

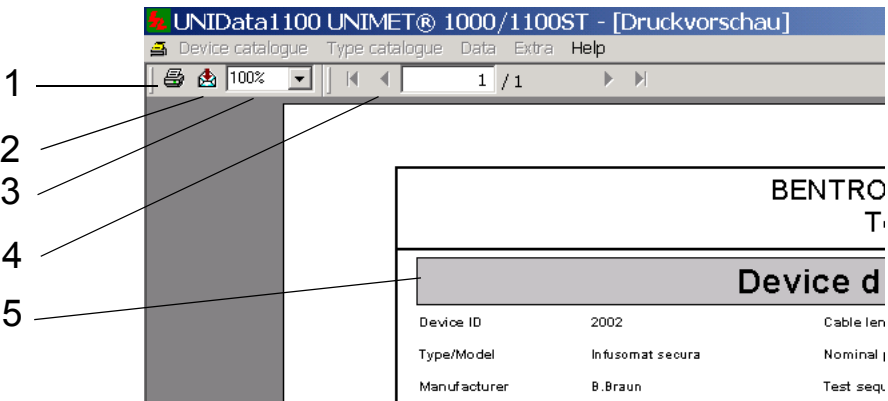
Click on the fields with a white background and complete the master data. UNIDat1100 will calculate the next test date automatically. Click on the “Save” button to save the changes.

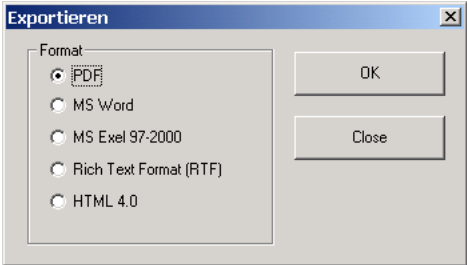


For periodic testing, export this device data to Unimet. Once testing is complete, re-import the data into UNIData1100. The new data overwrites the entire entry in UNIData1100 (including data relating to location, etc.).

4.4.1.3 Printout or export of the test protocol

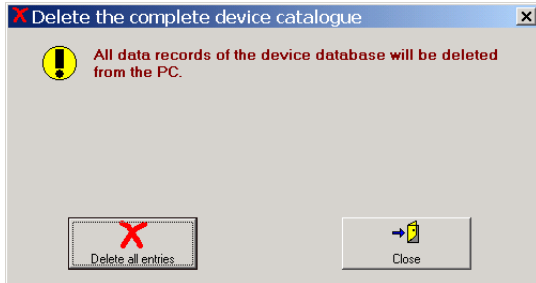
Press the “Print protocol” button. The print preview appears.



1	Prints the protocol to the selected printer.
2	Export to one of the following data formats: 
3	Selects the zoom factor for the protocol's print preview.
4	For protocols containing more than one page: Press ◀ or ▶ to scroll.
5	Protocol print preview

4.4.2 Deleting the device catalogue

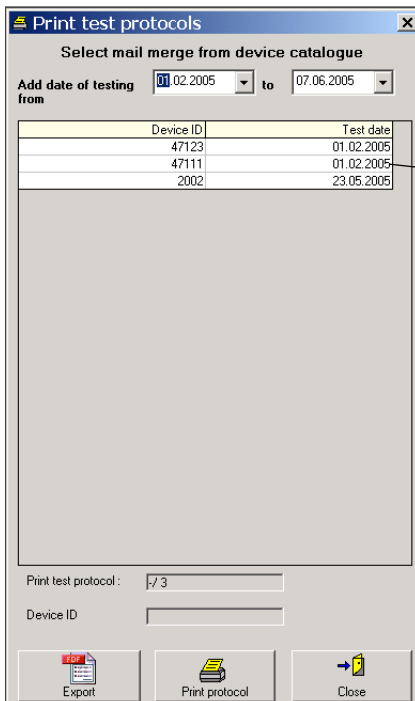
When you select “Device catalogue -> Delete”, a prompt will appear to prevent accidental deletion.



Delete all	Deletes the entire device catalogue.
Close	Exit function without making changes

4.4.3 Printing the device catalogue

The following dialogue box appears when you select “Device catalogue -> Print”:



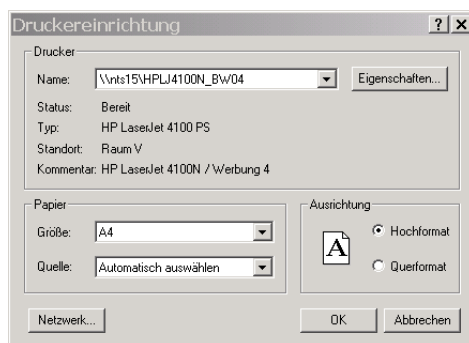
Preview window

Add date of testing from ... to ...	Selects devices for printing or export. The selection criterion is the date of the next test.
-------------------------------------	---

Preview window	Displays an up-to-date list of the selected devices.
PDF Export	Saves a test protocol in a separate PDF file for each device due to be tested during the selected time period.
Print protocol	Prints a test protocol for each device due to be tested during the selected time period.
Close	Exit function without making changes

4.4.4 Setting up the printer

Various functions in UNIData1100 enable data to be printed to a printer. Select the printer to be used and the printer settings under “Device catalogue -> Printer settings...”.

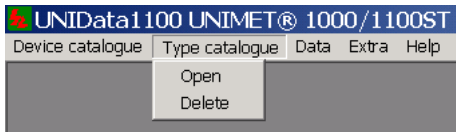


4.4.5 Exiting UNIData1100

To exit UNIData1100, select “Device catalogue -> Exit”.

4.5 Using the type catalogue

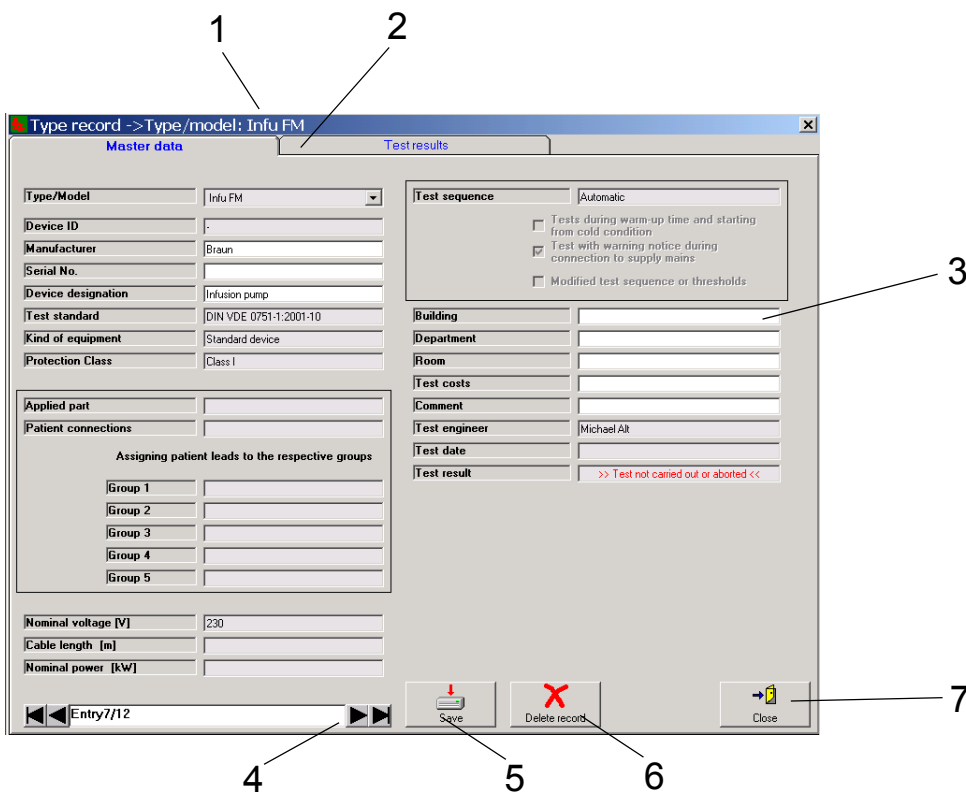
The following options are available in the "Type catalogue" menu:



Open	Opens the type catalogue for the purpose of adding, deleting or printing type data.
Delete	Deletes the entire type catalogue.

4.5.1 Opening the type catalogue

When you select "Type catalogue -> Open", the first entry in the type catalogue appears on the screen.

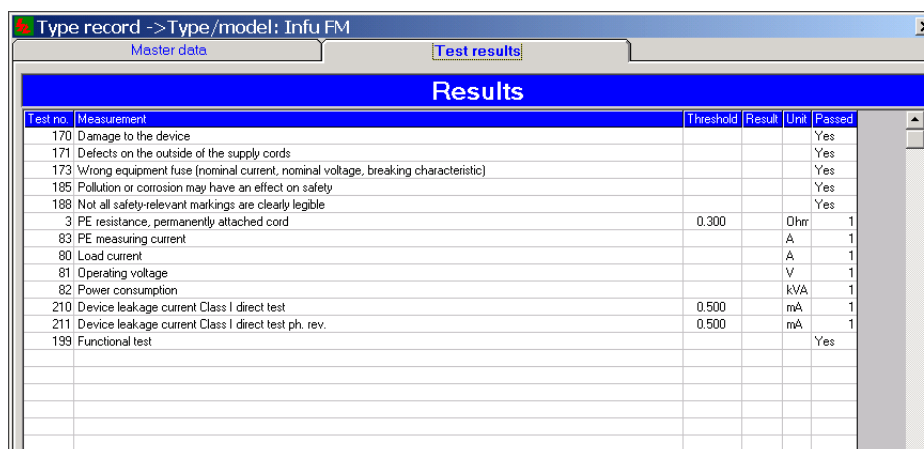


1	Type designation of the entry displayed in the type catalogue
2	Tabs for displaying master data or test results
3	Fields with a white background can be complemented to or modified.

4	Click on ◀ or ▶ to go to the next or previous entry. Changes must be saved in order to take effect.
5	Saves the current entry (type) following changes or additions.
6	Deletes entry (type). A prompt appears to prevent accidental deletion.
7	Closes the device catalogue.

4.5.1.1 Displaying limit values

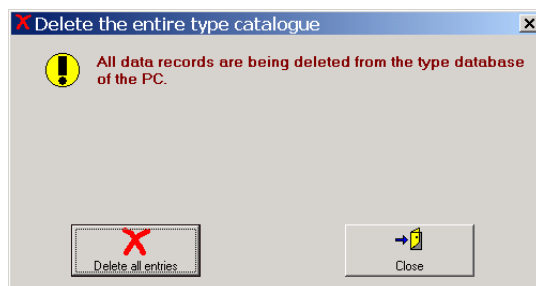
Click on the “Test results” tab to display the limit values (and, if available, the test results) for the current type.



Results					
Test no.	Measurement	Threshold	Result	Unit	Passed
170	Damage to the device				Yes
171	Defects on the outside of the supply cords				Yes
173	Wrong equipment fuse (nominal current, nominal voltage, breaking characteristic)				Yes
185	Pollution or corrosion may have an effect on safety				Yes
188	Not all safety-relevant markings are clearly legible				Yes
3	PE resistance, permanently attached cord	0.300		Ohm	1
83	PE measuring current			A	1
80	Load current			A	1
81	Operating voltage			V	1
82	Power consumption			kVA	1
210	Device leakage current Class I direct test	0.500		mA	1
211	Device leakage current Class I direct test ph. rev.	0.500		mA	1
199	Functional test				Yes

4.5.2 Deleting the type catalogue

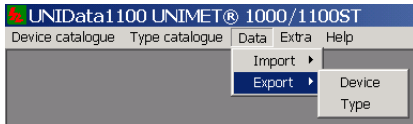
When you select “Type catalogue -> Delete”, a prompt will appear to prevent accidental deletion.



Delete all	Deletes the entire type catalogue.
Close	Exit function without making changes

4.6 Importing and exporting data

UNIData1100 can import data from Unimet. This data can be changed, saved and then re-exported to Unimet. The type and device catalogues are each transferred separately.



4.6.1 Importing data

Data must first be imported from Unimet before you can work with UNIData1100. It is for this reason that the import process is described in the chapter entitled "Getting started", section "Importing data" on page 14.



If UNIData1100 indicates errors during the import process (e.g. "no ID number found"), this indicates faults in the Unimet database.

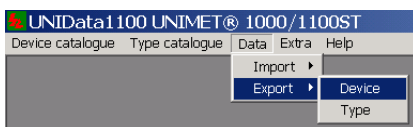
Proceed as follows to rectify the situation:

- Import the entire device and type catalogues into UNIData1100. Acknowledge the error messages. - UNIData1100 will only save perfect data records.
- In Unimet, run "Delete all data" under "Database administration -> Catalogues".
- Export the entire device and type catalogues to Unimet. - The Unimet database will now have been restored to a fault-free state.

4.6.2 Exporting data

For periodic testing, data is transferred from UNIData1100 to Unimet. For this purpose, data from the device and type catalogues is exported.

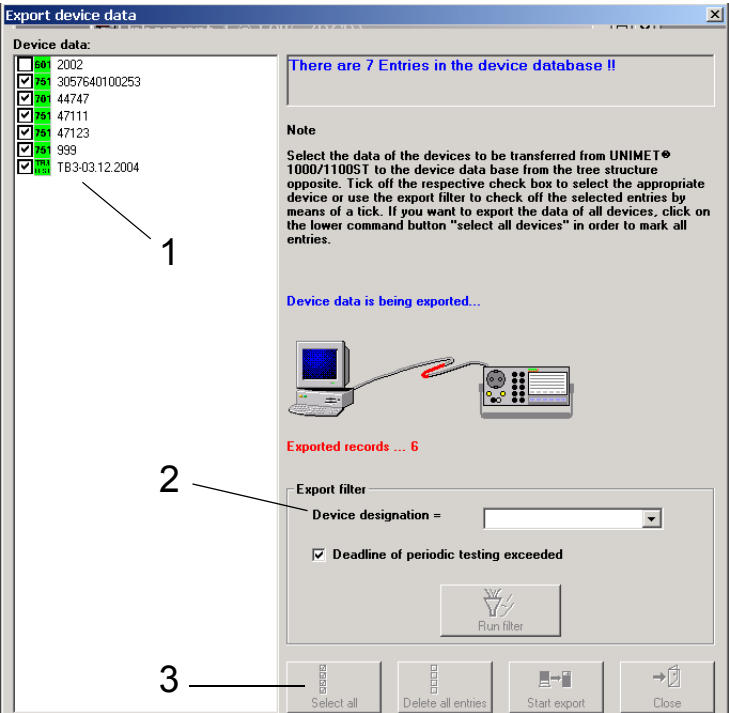
4.6.2.1 Exporting data from the device catalogue



UNIData1100 looks for a connection to Unimet and reads out all device data.



You should now select whether to export all data or only selected data.

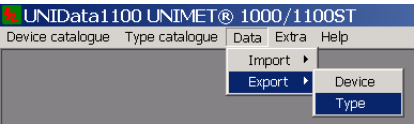


You have the following selection options:

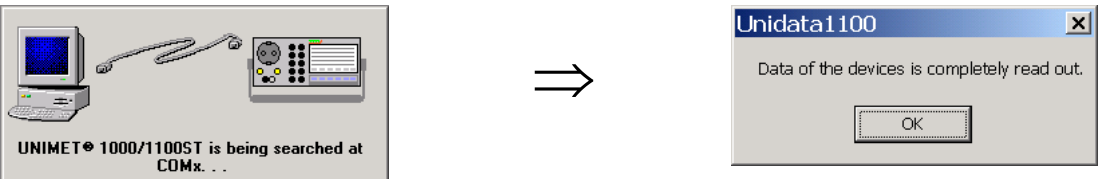
1	Checkmark the boxes associated with the required devices
2	Or, under Export filter, select the device designation and checkmark the "Deadline ... exceeded" box (both conditions must be met; this is an "AND" operation). Finally, click on the "Run filter" button.
3	Or "Select All".

Finally, click on the "Start export" button. All selected devices are exported. Data transfer progress is indicated on the screen. Click on the "Close" button to quit the export.

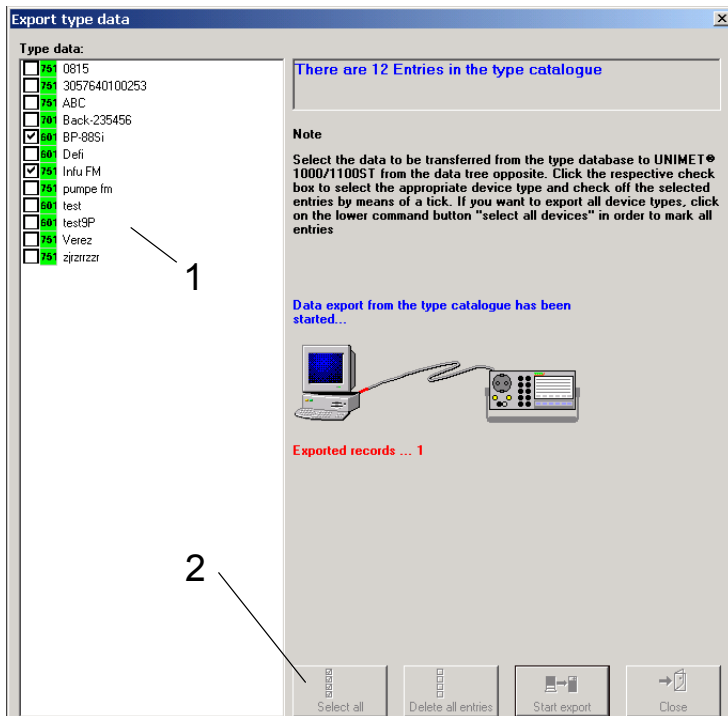
4.6.2.2 Exporting data from the type catalogue



UNIData1100 looks for a connection to Unimet and reads out all type data.



You should now select whether to export all data or only selected data.



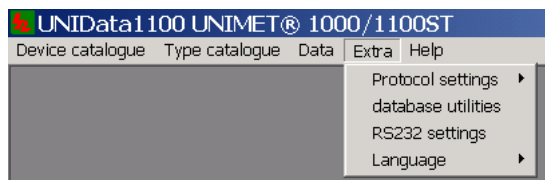
You have the following selection options:

1	Checkmark the boxes associated with the required types
2	Or "Select All".

Finally, click on the "Start export" button. All selected types are exported. Data transfer progress is indicated on the screen. Click on the "Close" button to quit the export.

4.7 Settings in the “Extra” menu.

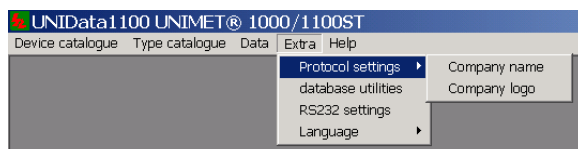
The following options are available in the “Extra” menu:



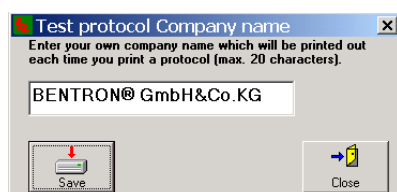
Protocol settings	Company names and logos can be printed out on protocols as formatting elements.
Service utilities database	The UNIData1100 database stored on the PC can be edited as follows: - Compress and repair - Restore - Back up
RS-232 settings	The RS-232 settings must first be made before you can work with UNIData1100. It is for this reason that these settings are described in the chapter entitled “Getting started”, section “RS-232 settings” on page 14.
Language	Selects the operator interface language for UNIData1100.

4.7.1 Protocol settings

Specify a company name and logo for protocol printouts under “Extra ->Protocol settings”.

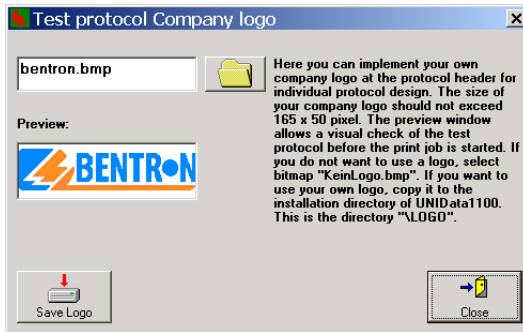


4.7.1.1 Entering a company name



Enter a company name and click on “Save”.

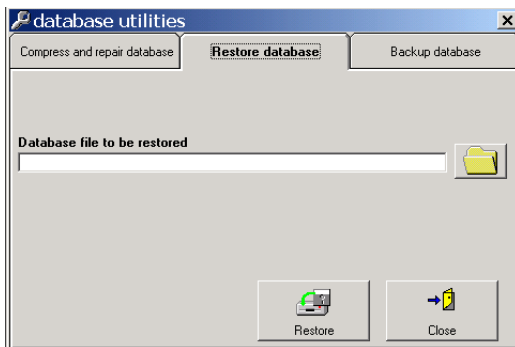
4.7.1.2 Specifying a company logo



1. Create a logo in bitmap format (.bmp). The maximum permissible size is 165 * 50 pixels.
2. Save the BMP file in the "Logo" subdirectory in the installation directory "...\\UNIDat1100".
3. Click on  and select a logo. If you do not wish a logo to appear, select file "KeinLogo.bmp" ("nologo.bmp").
4. Click on "Save Logo".

4.7.1.3 Service utilities database

The UNIDat1100 database stored on the PC can be edited.



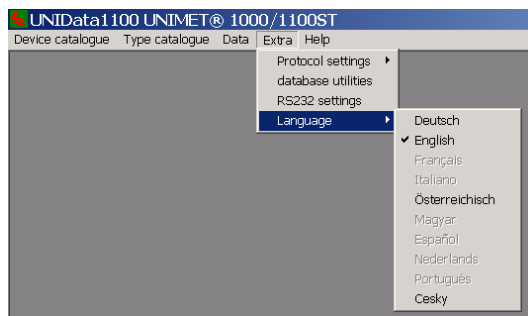
Compress and repair database	The database is reduced in size and any database errors are rectified.
Restore database	If the database has been backed up to directory "...\\DB_BACKUP" using the "Database backup" function, this backup copy can be used to restore the database. Click on  and select the backup file.
Back up database	The database is backed up to folder "...\\DB_BACKUP". The file name contains the backup date. The file name can be modified. There is no limit to the number of backup copies that can be saved.



Creating and backing up a number of databases provides a means of administering data volumes for a number of clients separately.

4.7.1.4 Selecting the language

In the “Extra -> Language” menu, select the operator language for UNIData1100.



Click on the required language. All menus will appear in the selected language. “Austrian” is used to adapt menu and protocol texts to reflect standards applicable in Austria (e.g. ÖVE-E 8751-1).

4.8 Help

The “Help -> Info...” menu provides information about the version of UNIData1100. Select “System Info...” to display information about your computer system.



Click on “OK” to quit the function.

5. Maintenance

5.1 Back up database

Data saved previously should not be lost in the event of a PC operating system crash. We therefore recommend that you back up the UNIData1100 database to a separate data medium or a different directory on a regular basis.

Unless you changed the directory location during installation, the UNIData1100 database will be located in directory "C:\Program Files\UNIData1100\Database". The file to be backed up will be called "u1100.mdb".

UNIData will assist you during data backup. For more detailed information, see the chapter entitled "Service utilities database" on page 28.

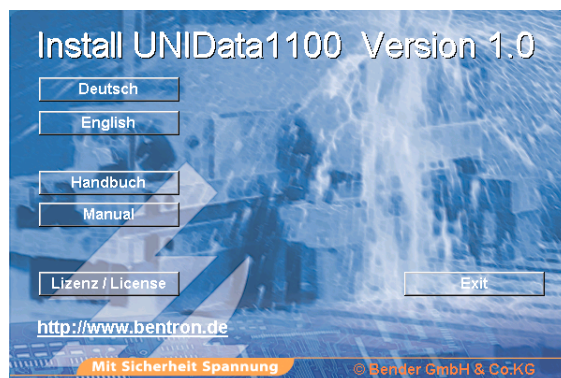
5.2 Installing updates

5.2.1 Prior to an update

1. Back up the UNIData1100 database to a separate data medium.
2. Quit all active programs.
3. Insert the "UNIData1100" CD containing the update into the CD drive.

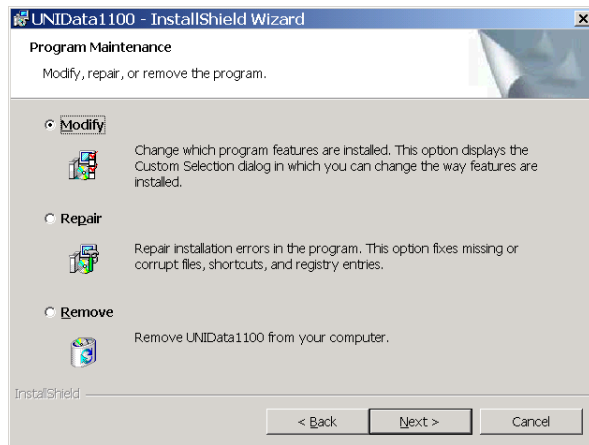
5.2.2 Installing the update

1. You will find file "CD_Start.exe" on the CD. Run this file (double-click). - The installation process starts up.



- Select the required language for the installation process (e.g. "English").
2. The system gets ready to perform the installation. The installation process starts up (InstallShield Wizard).
 - Click on "Next".

3. If UNIData1100 has already been installed on the PC, this will be detected by the installation utility. When you start the installation process, the following window will appear:



- Select “Repair” to run the update.
4. Then follow the instructions for the software until the program has been installed.
 5. The window you saw on the screen at the start of the installation process appears.
 - Click on “Exit” to quit the installation.
 6. Quit all programs and restart the PC.
 7. Start up UNIData1100 and check that the test data saved is still available. If data has been lost, quit the software and replace the database (...\\UNIData1100\\Database\\u1100.mdb) with the backup copy.

5.3 Uninstalling UNIData1100

Proceed as follows to remove UNIData1100 completely from a PC:

1. Click on the Windows “Start” button and select “Settings -> Control Panel”.
2. Click on “Software” and select “UNIData1100”.
3. Click on “Remove” and follow the instructions that appear for the uninstallation routine.
4. Open the installation directory (e.g. C:\\Program Files) and delete the “UNIData1100” directory located there.

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