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SOFTWARE DESCRIPTION

MTVis
Data Visualisation and Management Software

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Table of Contents Page

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Important User Information

Text Markings

1. Numbers mark activities, which are to be accomplished in the indicated order.
- Bullets mark general enumerating.

General Description

The MTVis software is designed for visualization the measuring data as well as bi-directional data management between a unit of the MT-series or COM3003 and an external PC. MTVis serves vor visualization of stored measuring data, management of customer and meter data and import/ export of Excel ® or XML files.

HINT

In the following the abbreviation MT3xx resp. MT-test device is used for the following devices: MT310, MT320, MT36x, MT681 and MT78x.

Applications

- Visualization of stored data
- Data transfer from the CF-card to an external PC
- Data transfer from an external PC to the CF-card
- Data transfer from MT test device to an external PC.
- Editing of customer information data on an external PC
- Creating of backups from the CF-card on an external PC
- Creating and printing of test protocol
- Import and export of Excel files
- Import and export of .XML files

Requirements

System requirement: Windows XP, 7 or higher

The following applies for MT3000 and COM3003:

To make sure that all data are readable or storable with the MTVis software, the user should ensure that the folders, described in chapter *Settings* on page 12 are available on the CF-card.
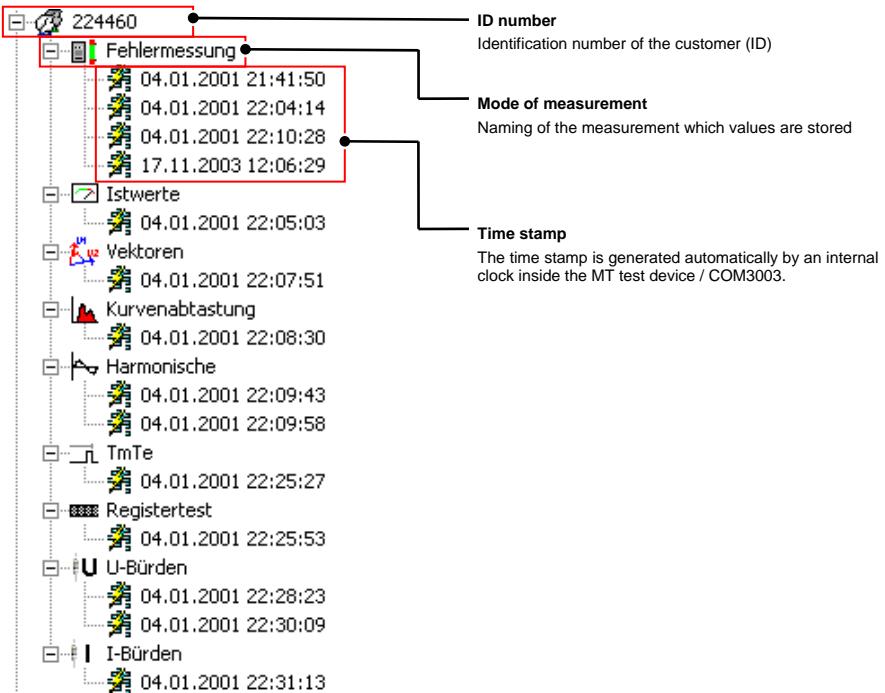
Please ensure, that the .XML-files and the paths mentioned below are existing:
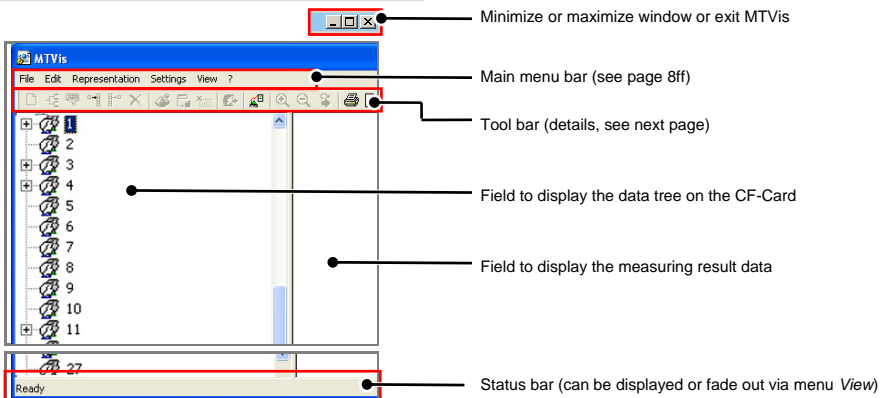
- \MAIN\MAIN.XML
- \RESULT\RESULT.XML

HINT

In order to readout or write data insert the CF card into the CF card adapter or a comparable device.

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Tree Structure of Stored Data

ID number
Identification number of the customer (ID)

Mode of measurement
Naming of the measurement which values are stored

Time stamp
The time stamp is generated automatically by an internal clock inside the MT test device / COM3003.

Main Menu

Minimize or maximize window or exit MTVis

Main menu bar (see page 8ff)

Tool bar (details, see next page)

Field to display the data tree on the CF-Card

Field to display the measuring result data

Status bar (can be displayed or fade out via menu *View*)

6

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All important functions are available inside the tool bar.

Create new file

Show the whole field

Create new group

Represent actual value

Edit location or group

Print

Import locations from a CSV file

Print preview

Export locations in a CSV file

Print setup

Delete

Selection of XML-data and language

Edit remark and adress for a test result

Create backup

Exports results

Restore backup

Delete results

Info about MTVis

Assign results

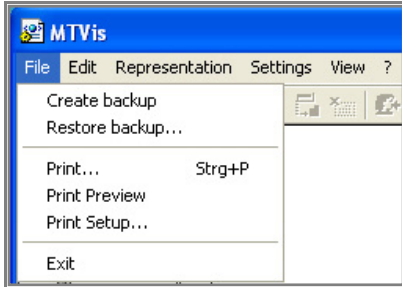Read out data from MT test device

Zoom selected field

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<div style="display:flex">

File

Create backup

This function creates a folder on the hard disk drive, where the MAIN.XML and the RESULT.XML files will be stored. The path of the folder can be selected (see chapter *Setting* on page 11).

Restore backup

With this function a backup can be restored. A window will open and the selected backup will be stored.

Print

Print out the stored values on a default printer.
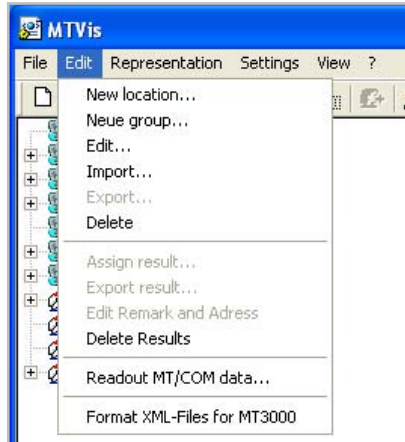
Print preview

Preview of the data sheet.

Print setup

A window opens, where the print setup can be performed.

Exit

Exit the MTVis software.

Edit

New location

Add a new location.

New Group

Add a new.

Edit

Edit an existing ID.

Import

Import a location of a CSV file.

Export

Export a location into CSV file.

Delete

Delete an existing ID.

Assign results

Assign test results to an existing ID.

Export results

Export test result of an existing ID.

Edit remark

For each test result a remark can be created or edited. This remark will only be displayed in the corresponding window. It will not be shown on the test report.

Delete results

Delete test results conclusively.

Readout MT/COM data

Test results can be read out from the MT test device or COM. Another window will open (see next page).

Format XML file for MT3000

Test results will be stored as XML-file for MT3000.

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8

Readout MT/COM Data

1 Timeout period (increase the timeeout period if data readout cannot be performed.)
2 Select interface (e. g. COM2)
3 Status of data readout
4 Display of readout protocol
5 Close window
6 Delete results
7 Start readout

Representation

The representation of the stored data can be changed as required.

Examples

Representation in table form

	UB	IB	MA
Meas settings	60.00 V	200.00 mA	4Wa
U-Translation	11000:sqrt(3)/110:sqrt(3)		
I-Translation	10.0/5.0		
	Actual Values	Constant	Register
Translation	Off	Off	Off

Channel UL1   Sum 0.00 %

	Absolute value	Angle
0	0.00 %	0.00°
1	100.00 %	0.00°
2	0.00 %	0.00°
3	0.00 %	0.00°
4	0.00 %	0.00°
5	0.00 %	0.00°
6	0.00 %	0.00°
7	0.00 %	0.00°
8	0.00 %	0.00°
9	0.00 %	0.00°
10	0.00 %	0.00°
11	0.00 %	0.00°
12	0.00 %	0.00°
13	0.00 %	0.00°
14	0.00 %	0.00°
15	0.00 %	0.00°
16	0.00 %	0.00°
17	0.00 %	0.00°

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Logarithmic diagram
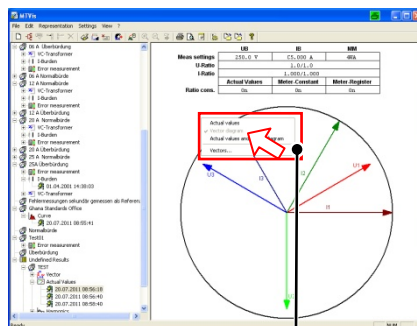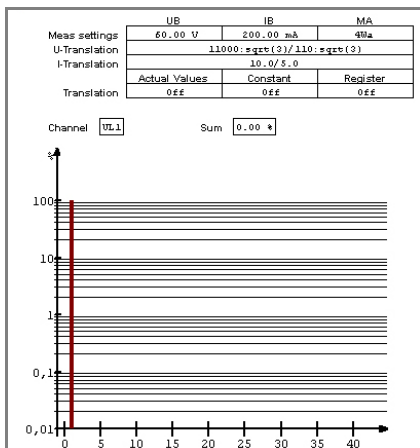
Linear diagram
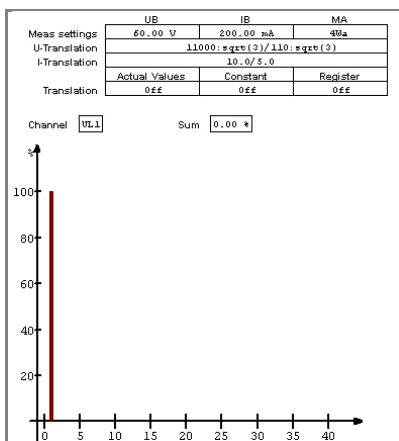
Settings and Vectors

Settings
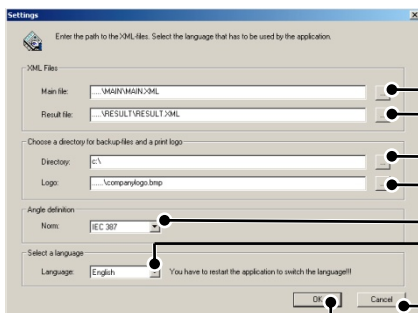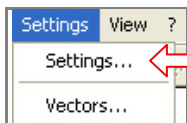
1 Selection of the path where the MAIN.XML file is located on CF-card.

2 Selection of the path where the RESULT.XML file is located on CF-card

3 Selection of the path where the backup files should be stored

4 Selection of the path where the company logo is stored, which should be imaged in the test protocol (see hint).

5 Selection of the type of norm, the phase angle should be represented (IEC387 or DIN410)
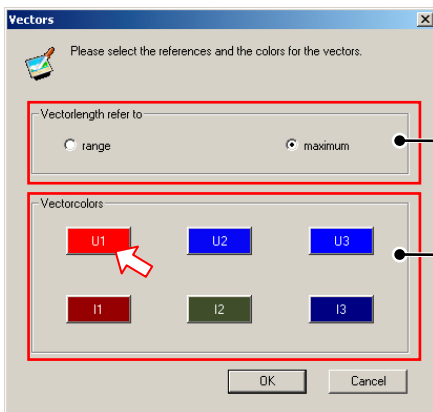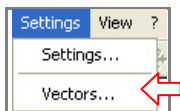
6 Selection of the menu language (German, English, Spanish, French or Czech)

7 Cancel all selections with the >Cancel< button.

8 Confirm your selections with the >OK< button.

HINT

The company logo should be a bitmap file (.bmp). In order to visualize the logo correctly, it is required to fit it in a dimension of 4 cm x 1.3 cm. The resolution of the logo should also agree with the resolution of the printer, which is used for printing of the test protocol.

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Settings	View	?
Settings...		
Vectors...		

Vectors

Please select the references and the colors for the vectors.

Vectorlength refer to
○ range   ● maximum

Set a point of reference for vector representation (range or maximum).

Vectorcolors

U1	U2	U3
I1	I2	I3

OK   Cancel

Click into the corresponding field (e. g. U1) to select a predefined color or any other color from the chromaticity diagram

View

View	?
✔ Toolbar	
✔ Status Bar	
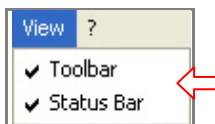
Click into the line toolbar (upper line)/ Status Bar (line below) to show this bar or to fade it out. The check mark indicates that this bar is activated (see also page 6)

12

Applications with MTVis Software

Data Storage on CF-card *

HINT

Stopp a continuous measurement before you are going to store data on the CF-card.

Proceed as follows:

1. Stopp the measurement via button (device).
2. Press the function key >Store< at the device.
3. Select an existing ID or create a new one (see chapter on the right).
4. Press function key >OK<.

Read out Data from CF-card with MTVis*

* with MT3000 or COM3003

HINT

Switch off the device before taking out the CF-card!

1. Take out the CF-card of the MT3000/COM3003 and put it into the external CF-card reader.
2. Start MTVis Software.
3. Click to >Settings< in the menu bar or click to [icon] for selecting the XML-files.
4. Enter the path where the main and the result files are located (MAIN.XML and RESULT.XML). These files are located on the CF-card, which are shown as a further drive (D:\ E:\ F:\ or G:\…..). Select the corresponding drive and click to >OK< (see also page 11).
5. Now select an ID from the data tree (see also page 6).

Read out Data with MTVis (with MT3xx)

1. Switch on the MT test device.
2. Connect the MT test device and an external PC via serial interface cable.
3. Start MTVis software. Select >Edit< in the menu and function >Readout MT/COM data<. Select the corresponding interface in the next window. Now click to >Readout values< and confirm with >OK<.
4. Now the stored data will be sent to the external PC and converted into an .xml file. This file can be renamed and stored for further editing.

Print stored Data

1. Select the ID, of which stored measuring data should be printed.
2. Click to >Representation< and select the desired mode (if possible) (see also page 9/10).

HINT

Change the representation style by pressing the right mouse button.

3. Click to >File<, and select the desired print mode and perform the print setup if necessary. You can also use the [icon] icon to to print on a standard printer or click to [icon] for print preview or [icon] to perform the print setup.

ID-code Definition to create a New Data File

1. Click to >Edit< and to >New< in the menu bar.
2. Enter a new ID. For a better identification enter a remark. In the following masks a lot of information e.g. meter, customer, net and location can be inserted.
3. Confirm the entered data with >OK<.

Editing an existing Data File

1. Select an existing ID, which should be edited.
2. Click to >Edit< in the menu bar and then to >Edit< in the next menu.
3. Edit the data file
4. Confirm the entered data with >OK<.

Delete an existing Data File

1. Select an existing ID, which you want to delete.
2. Click to the [icon] icon. Now you will be asked if you really want to delete this data file. Confirm this question with >Yes< to delete the ID.

Visualization of stored Data

1. Select the ID, which should be visualized and click to the time stamp.
2. Click to >Representation< and select the desired mode, how the measured data should be visualized (see page 9/10).

HINT

Change the representation style by pressing the right mouse button.

Only visualization modes, displayed in black colour, are selectable.

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If you have technical questions or problems, please contact our service department along with the following information:

- Serial number of the device
- Order number of the device
- Detailed description of the problem

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