19. RetroTools (PC Software)

19.1 Installation

Put RetroTools CD in CD-ROM and start up the Setup-Program "Retrotools.exe". Please follow the installation instructions and install all options:



19.2 Program start

In the menu "Start", "Programs" you find "Retroreflectometer Tools" the "RetroTools" program can be started here.



Appendix

19.3 Main program

19.3.1 Choose language

Under "Extras" and then "Options" or directly with the F9 button the language can be changed.

19.3.2 Connection configuration

In the menu "File" and then "Connection configuration..." or with the direct button F7 the connection options can be called. The standard settings are as follows:

🙏 Manage device configurations		×
Configurations	General settings	
Standard	Name Standard	
	Communication settings	
	Port	COM1:
	Baud rate	19200 💌
	Parity	None
	Data bits	8 💌
	Stop bits	1 💌
	Protocol	None
	Termination	Carriage Return (CR) 💌
	Max. reading timeout	5000 ms
Add Delete		OK Cancel

19.3.3 Connection set up

Before a connection to the device is possible the COM cable of the PC (Standard COM1 Port) has to be connected to the ZRM 6013 (Port PC) (see "System diagram" on page 52). Further the device must be switched on.

Under "File" -> "open connection" or with the Direct-icon \blacksquare the connection to the device opens. This will be shown in the bottom information field:

Not connected	Shows up when there is no connection.
Connected to 371013xxx	If connected the serial number of the device will be shown.

Appendix

19.4 Plug-Ins / Add-Ins

19.4.1 Data Export

• To start up Data Export the corresponding icon has to be double clicked.



Data Export

• Data Export can be made as a Text file (.txt) and as an Excel file (.xls). Please choose the needed file format, this must be confirmed with the Next button.

🔚 Data Export	×
Target format Select a target format for the exported data's	
The following target formats are available:	
Microsoft Excel workbook	
Generating a Excel worksheet.	
Text file All data's in the device will be stored in a text file separated by a tab. This format can make it easier to manipulate the data with many software programs.	
< <u>B</u> ack <u>N</u> ext > Cancel	

- Thereon the path where the data has to be saved must be indicated as well as the name of the file.
 For example. c:\Programs\RetroTools\14122002_measurements.xls This must be confirmed with the Next button again.
- If you wish to import the data into Fugawi Mapping Software, you have to choose "Generate an additional file for Fugawi Mapping Software".
- Confirm with Next button.

📕 Data Export	×
File name	
Input the name of the export file	
Select the path and file name where the data's shall be stored:	
G:\Dateien_Produktion\351013925_22032006.xls	
<u>B</u> rowse ☐ Generate an additional export File for Fugawi Mapping Software	
c Back Mout > Cancel	
<u> </u>	

• Subsequently, it can be chosen if the exported data from the data bank of the ZRM 6013 should be erased or not as well as if the temperature indication should be in Celsius or Fahrenheit.

🔚 Data Export	×
Additional options	
Choose additional options for export	
Delete data in the device after successful download to the computer?	
C ves	
• no	
Should the temperature values be exported in °C or in °F?	
C	
0 °C	
× 1	
Press "Next" to start the export.	
< Back Next > Cancel	1
	-

- This must be confirmed with the Next button again.
- After the export the file can be opened automatically.

The measuring data is now stored in the indicated data list.

The data can be used for making some analyses. The Excel-export file is very useful for this (see sample below).



19.4.2 Firmware update



To start up the Firmware update the corresponding lcon has to be double clicked.

Firmware-Update



🔚 Data Export	×
Target format Select a target format for the exported data's	
The following target formats are available:	
Microsoft Excel workbook	
Generating a Excel worksheet.	
6	
🔿 Text file	
All data's in the device will be stored in a text file separated by a tab. This format can make it easier to manipulate the data with many software programs.	
< <u>B</u> ack <u>N</u> ext > Cancel	

19.4.3 Use the existing version

With this option the latest firmware file of the local saved files will be installed. This is displayed above, in this example: ZRM-D1 1.18

19.4.4 Select another firmware file

With this option a file can be chosen and installed from all local saved files. This allows installing an older version of the firmware if needed.

After choosing the option the firmware will be saved automatically and the device will be restarted, afterwards the firmware update can be closed. At the information desk of the ZRM 6013 the installed firmware version will be shown.

19.5 RetroTools Update

The RetroTools software is not updating automatically. New versions can be obtained at Zehntner e.g. on the occasion of the maintenance and calibration.

Before a new version of the RetroTools can be installed, the former version has to be uninstalled.