

INSTALLATION GUIDE USER MANUAL

FP-5 TRANSFER

For FerroPro FP-5

Version 4.03 dated **2023-01**



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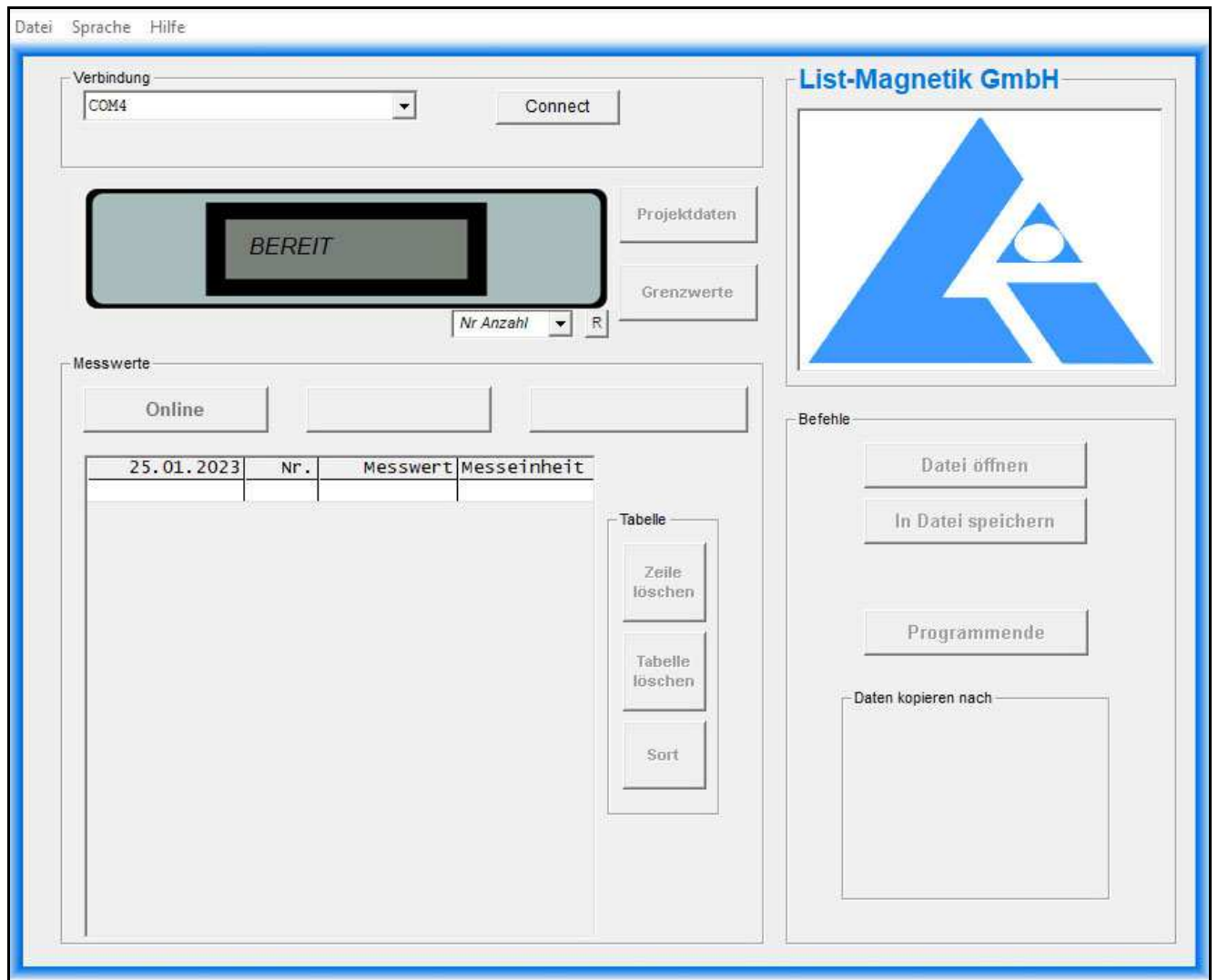
FP-5 TRANSFER (2023-01)

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1. FP-5 TRANSFER APPLICATION

At <https://www.list-magnetik.com/software> you can obtain the free of charge application **FP-5 TRANSFER** to transfer data from your FerroPro FP-5 device to a Windows PC or laptop.

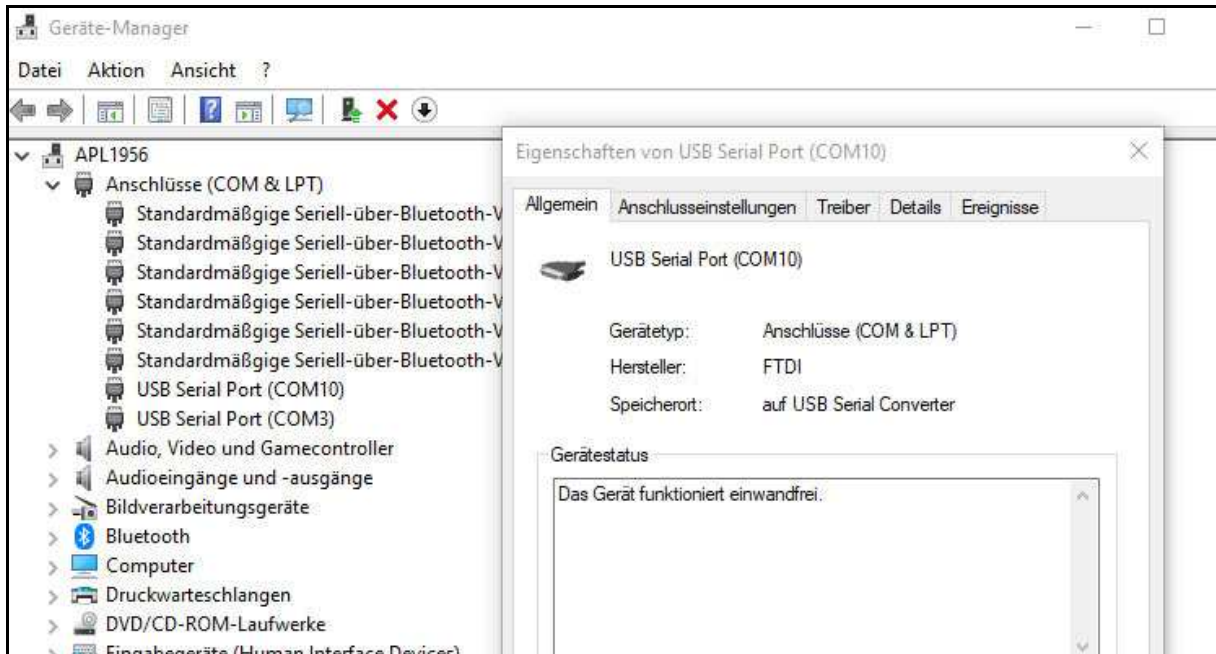
With FP-5 TRANSFER you can measure online, or read the device's memory, you can print the results or transfer them to various applications like Microsoft Word or Microsoft Excel.



2. PREPARING CONNECTION

DETECTING THE COM-PORT FOR CABLE

After plugging in the USB cable into FerroPro FP-5 and PC, a so-called COM port is formed. This assignment remains permanent. Before starting the application FP-5 TRANSFER you need to know what this port is called.



3. INSTALLING THE APPLICATION

The installation package is called „FP-5 TRANSFER_Vxx_Setup.exe“ xx = version number) and available for download at

<https://www.list-magnetik.com/en/applications/applications-overview>

If your firewall or virus scanner prevents or disallows an installation, you can ignore these warnings. The installation packages are free from viruses and advertisements, they are only distributed via our homepage.

The default paths used during installation are Windows 10

C:\Program Files (x86)\List-Magnetik\FP-5 TRANSFER

Constant program components

C:\ProgramData\List-Magnetik\FP-5 TRANSFER

**C:\Users\<>\AppData\Local\VirtualStore\ProgramData\List-Magnetik
\FP-5 TRANSFER**

User-used and modified configuration data (COM port, language, limits, project data) and this manual

C:\Users\<>\AppData\Local\List-Magnetik\FP-5 TRANSFER

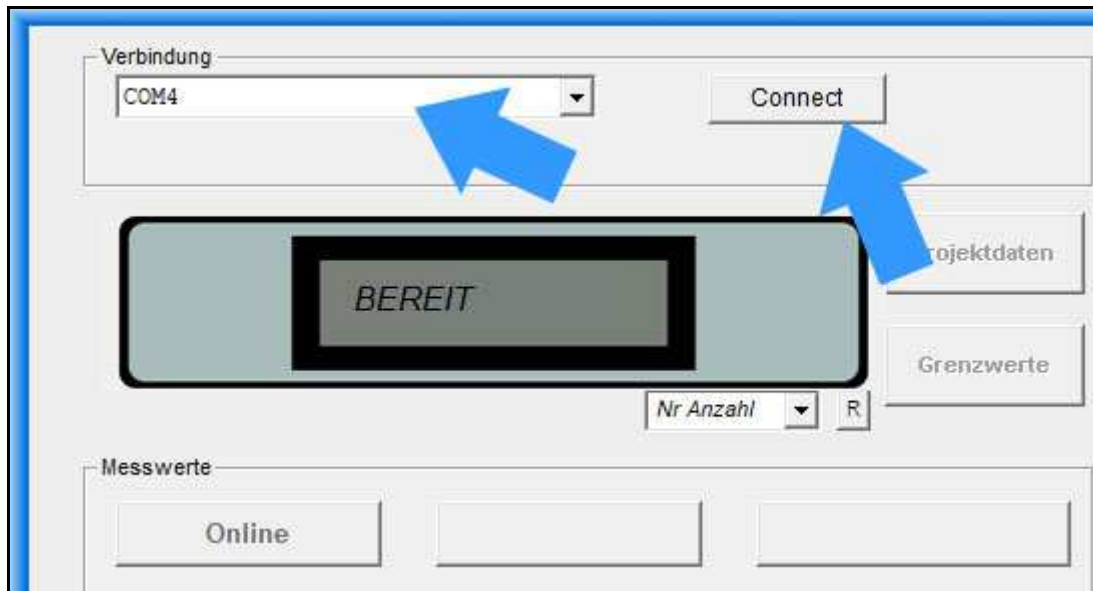
User created measurement series

Specification of the label of the project data

4. FUNCTIONS

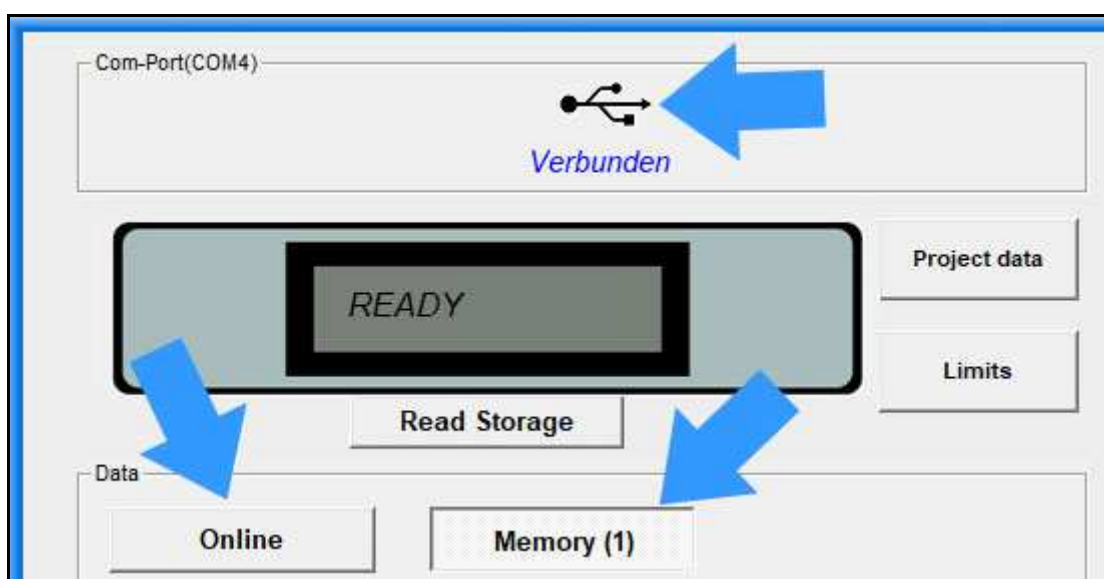
STEP 1: CONNECT

To connect, you need the number of the COM port, which you have determined in point 2. Your FerroPro FP-5 must be switched on.



After successful connection, the name changes to "Connected" and the selection box for the COM port becomes invisible. The selected and connected COM port is now in the frame above.

The currently selected device storage is read in directly after establishing the connection. The name and number of the memory are shown in the column header. The left of the 2 buttons above the table is shown as "Online".



MEASURING ONLINE

Now you can start your work.

For example, you can directly perform online measurements.

To do this, click on the "Online" button on the left above the measured value table.

The screenshot shows the software interface for List-Magnetik GmbH. At the top left, it indicates 'Com-Port(COM4)' is 'Connected'. A central display shows 'READY'. To the right, 'Project data' includes: > 1,350, < 1,430, and = 0,000. Below this is a 'Data' section with two tabs: 'Online (6)' and 'Memory (1)'. The 'Online (6)' tab is active, showing a table of measurements:

Date Time	No.	Value	Unit
25.01.2023 16:50:29	1	1,436	µr
25.01.2023 16:50:29	2	1,434	µr
25.01.2023 16:50:34	3	1,409	µr
25.01.2023 16:50:36	4	1,432	µr
25.01.2023 16:50:39	5	1,428	µr
25.01.2023 16:50:42	6	1,434	µr

To the right of the table are buttons for 'Delete row', 'Delete Tab', and 'Sort'. Further right, a 'Statistics' box shows:

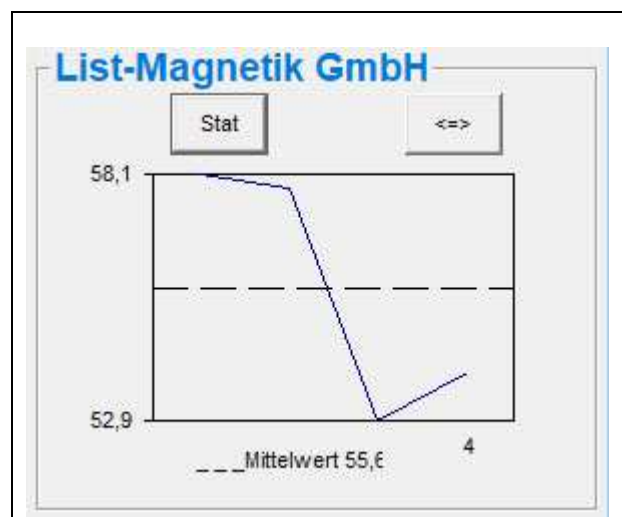
ONLINE
Statistics:
Number: 6
Minimum: 1,409 µr
Maximum: 1,436 µr
Average: 1,429 µr
Std.Deviation: 0,010 µr

At the bottom right, a 'Commands' section includes buttons for 'Open Data File', 'Save to File', 'Print', 'Exit program', and a 'Copy data to' section with options for 'Clipboard', 'MS Word', and 'MS Excel'.

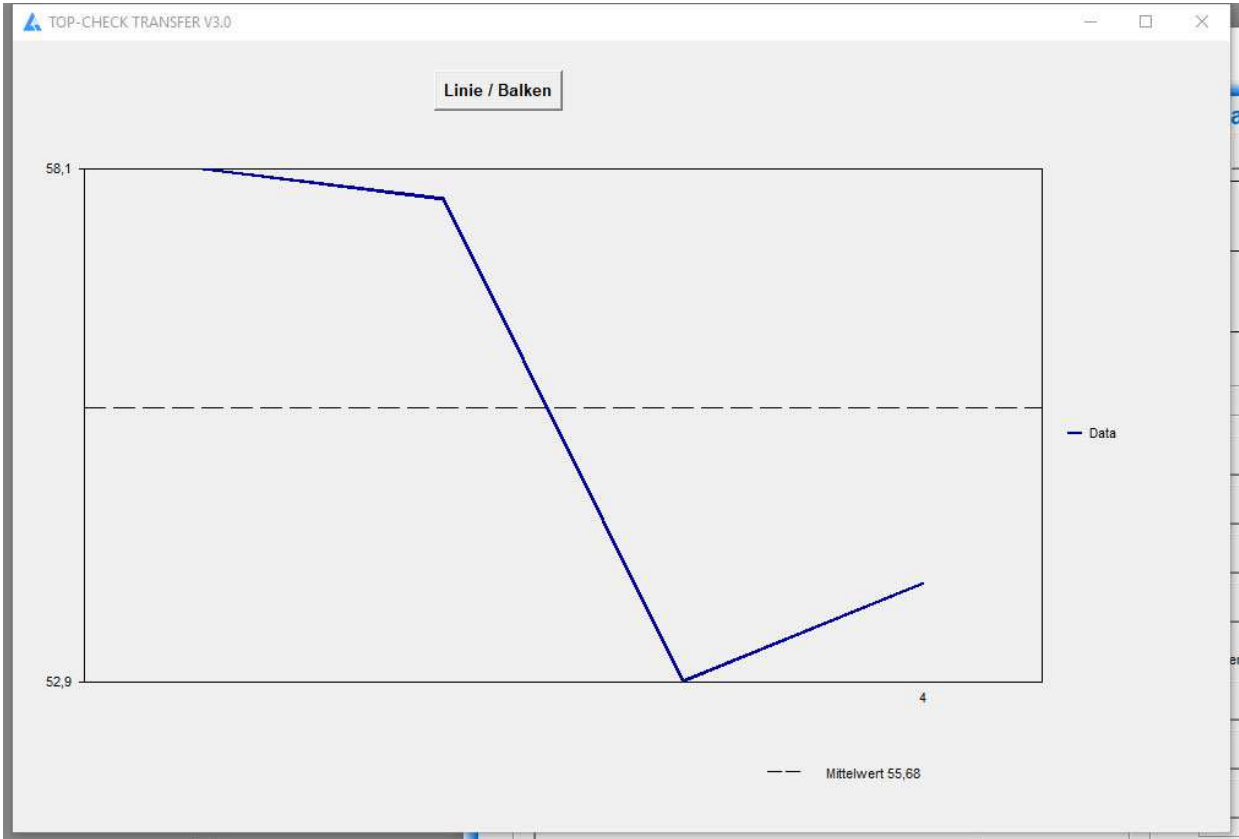
Statistical values are automatically generated from the measurements: Minimum, Maximum, Average (Mean) and Standard Deviation.

Note: The Standard Deviation is calculated with (n-1).

To toggle between the numeric statistic and a line diagram, please use the button **Chart** and **Stat**.

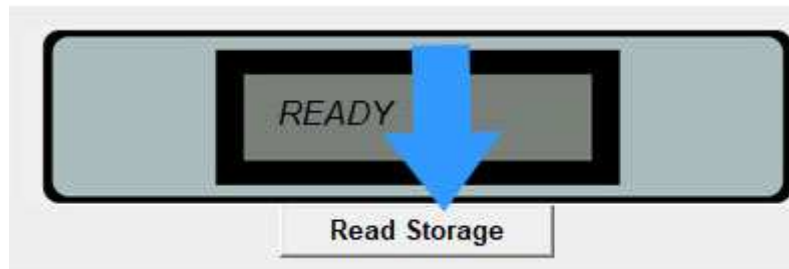


You can also switch to a larger view in the chart display with the button . There, the representation can be selected as a line or bar chart.



READ DATA FROM DEVICE

If you already have measured values in the device memory, these can be read from the device by the application. You can read it again at any time.



As long as the transfer is running all activities are blocked. The counter behind the title of the measurement series, counts the transferred measurements

Once the measurement series has been read, the buttons are active again and the statistical data is filled.

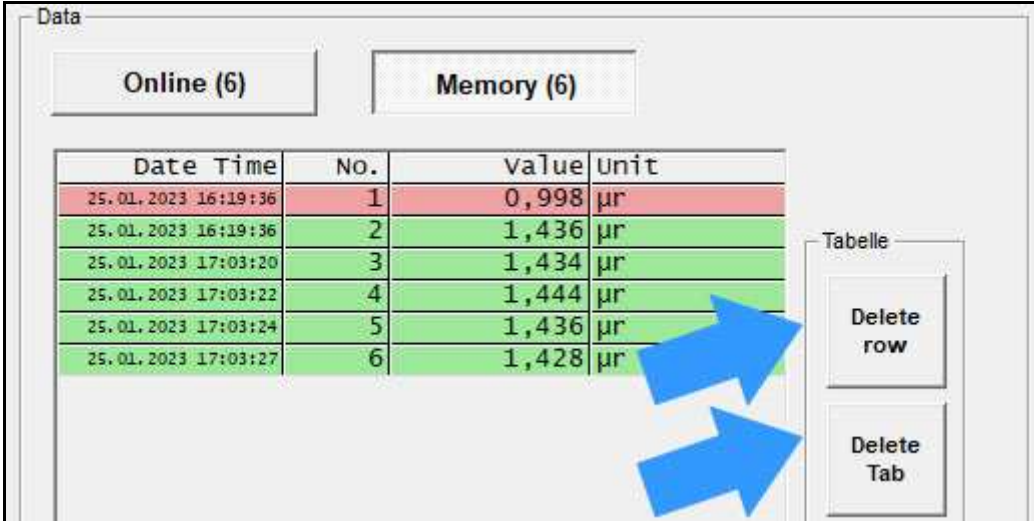
DELETE TAB, DELETE ROWS

The table of measured values can either be completely deleted or individual lines can be displayed. The statistics will be automatically corrected afterwards.

Note:

The data in the device will not be deleted.

By reading again from the device, the deleted values are added again.



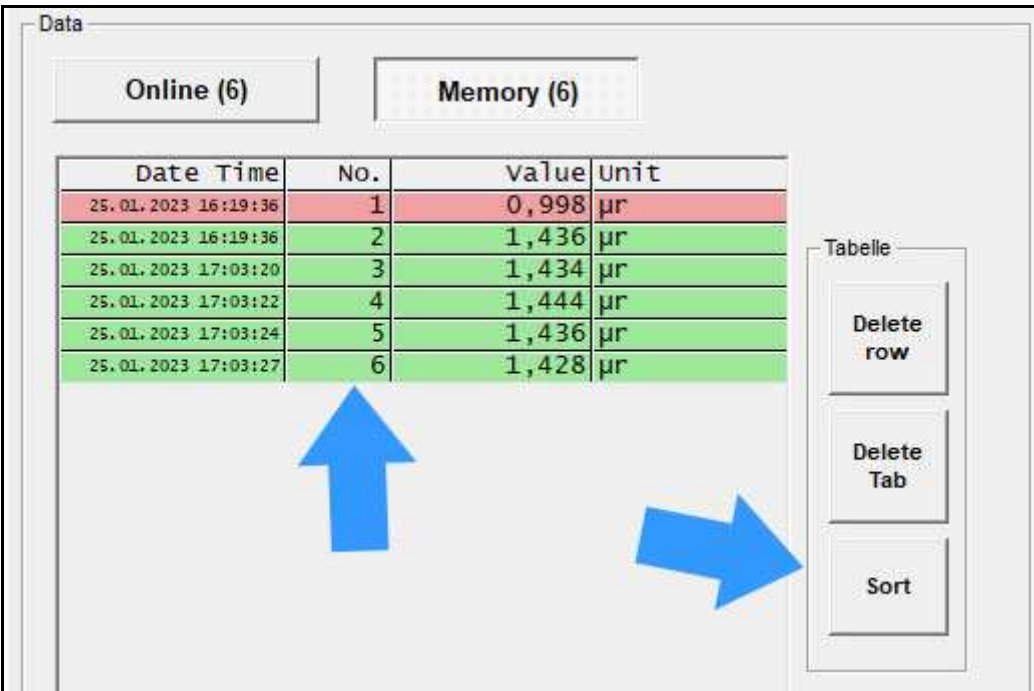
The screenshot shows a software interface with a 'Data' window. At the top, there are two buttons: 'Online (6)' and 'Memory (6)'. Below them is a table with the following data:

Date Time	No.	value	unit
25.01.2023 16:19:36	1	0,998	µr
25.01.2023 16:19:36	2	1,436	µr
25.01.2023 17:03:20	3	1,434	µr
25.01.2023 17:03:22	4	1,444	µr
25.01.2023 17:03:24	5	1,436	µr
25.01.2023 17:03:27	6	1,428	µr

To the right of the table is a vertical panel labeled 'Tabelle' containing two buttons: 'Delete row' and 'Delete Tab'. Two blue arrows point from the table area towards these buttons.

SORT TABLE

The tables with the measured values can be sorted in descending order from the last to the first one.



The screenshot shows the same software interface as the previous image, but with a 'Sort' button added to the 'Tabelle' panel. The table data is now sorted in descending order of value:

Date Time	No.	value	unit
25.01.2023 16:19:36	1	0,998	µr
25.01.2023 16:19:36	2	1,436	µr
25.01.2023 17:03:20	3	1,434	µr
25.01.2023 17:03:22	4	1,444	µr
25.01.2023 17:03:24	5	1,436	µr
25.01.2023 17:03:27	6	1,428	µr

The 'Tabelle' panel now contains three buttons: 'Delete row', 'Delete Tab', and 'Sort'. Two blue arrows point from the table area towards these buttons.

PROJECT DATA

FP-5 TRANSFER allows you to edit project data for a measurement series. This project data will then be provided during printing, when transferring to Microsoft Word or Microsoft Excel, so that you can document the series of measurements.

You have a date / time information and 6 free text fields as project data available.

The free text fields can be defined by the user. In the configuration file "Projekt.ini" on the user data directory („C:\Users\\AppData\Local>List-Magnetik\FP-5 TRANSFER"), you can define 6 fixed terms in German and English for yourself.

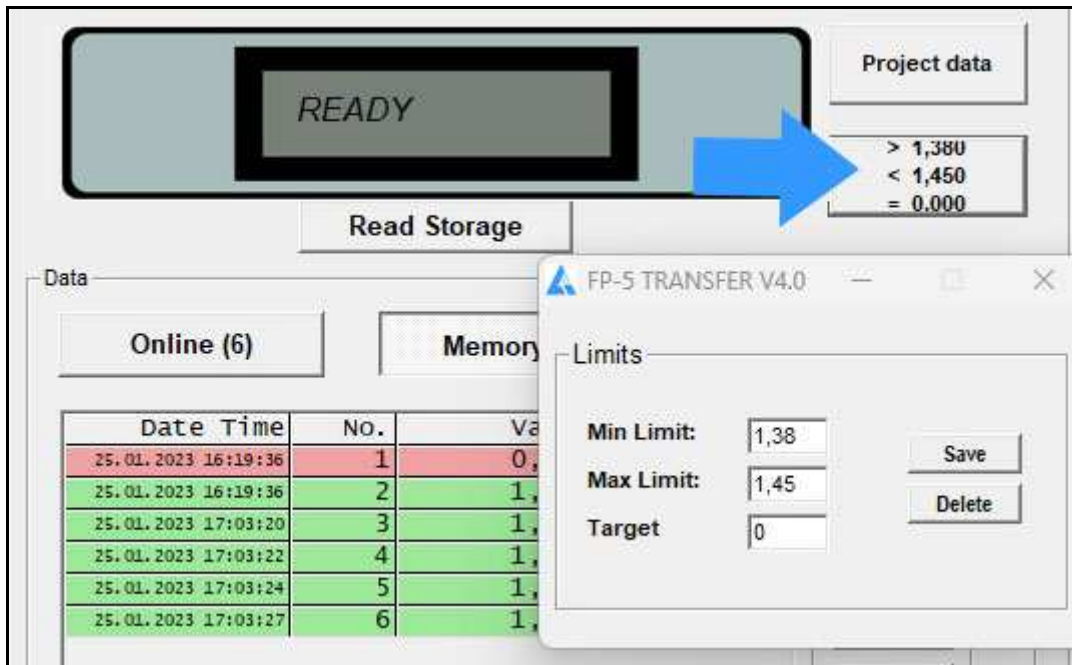
Example:

```
Projekt;Project;  
Ort;Location;  
ID-Nummer;ID No.;  
Farbe;Color;  
Kunde;Customer;  
Rechnungsnr;Invoice No.;
```

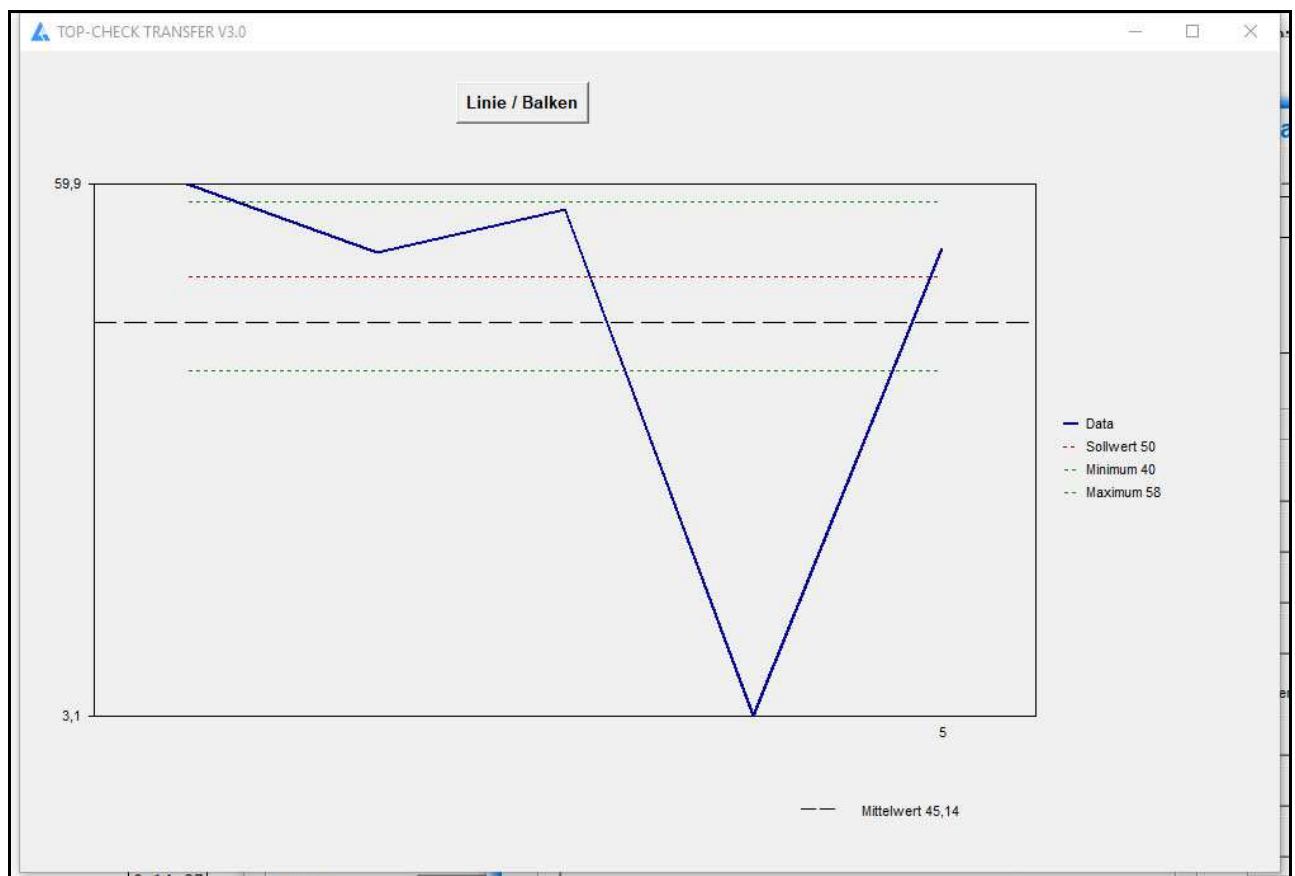
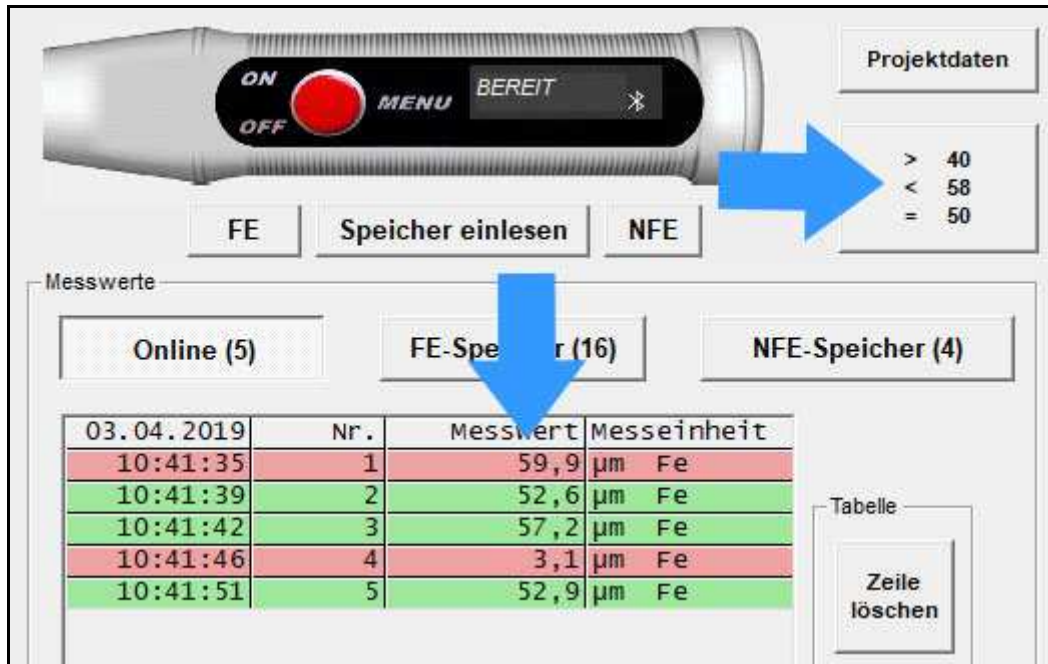
The screenshot shows a dialog box titled "Projektdaten". It has a "Datum/Uhrzeit" field with a date dropdown set to "03.04.2019" and a time spinner set to "11:00:00". Below this are six text input fields labeled "Projekt", "Ort", "ID-Nummer", "Farbe", "Kunde", and "Rechnungsnr". To the right of these fields is a "Befehle" section containing two buttons: "Speichern" and "Löschen".

LIMITS

With limit values, an evaluation of your measured values after falling below or above a corridor is possible. If you have specified limit values, the measured values are highlighted in green (= in the corridor) or red (= outside). In addition, a target can be preset. The limits and the target are displayed in the charts (line or bar).



Example from TOP-CHECK TRANSFER: Input of min limit = 40, max limit = 58.

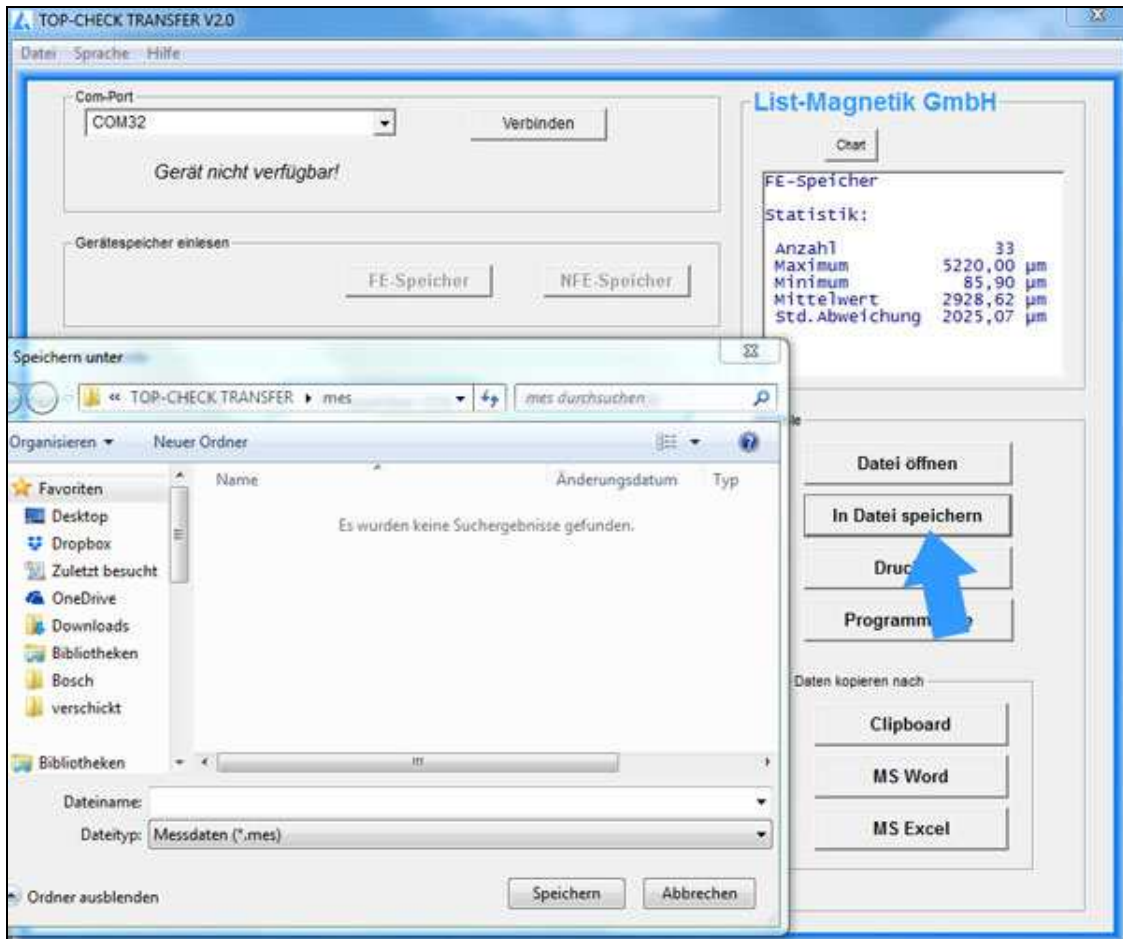


Representation of the limits and the target in the line chart

OUTPUT: FILE, PRINTER, APPLICATIONS

All examples show coating thickness measuring results, and work identically for magnetic field meters and permeability meters.

The measurement series can be stored in a file.
Files of type ".mes" are readable with a text editor.



With the button "Open Data File" such a series of measurements can be read again from file, for example to print it or to transfer to Excel.

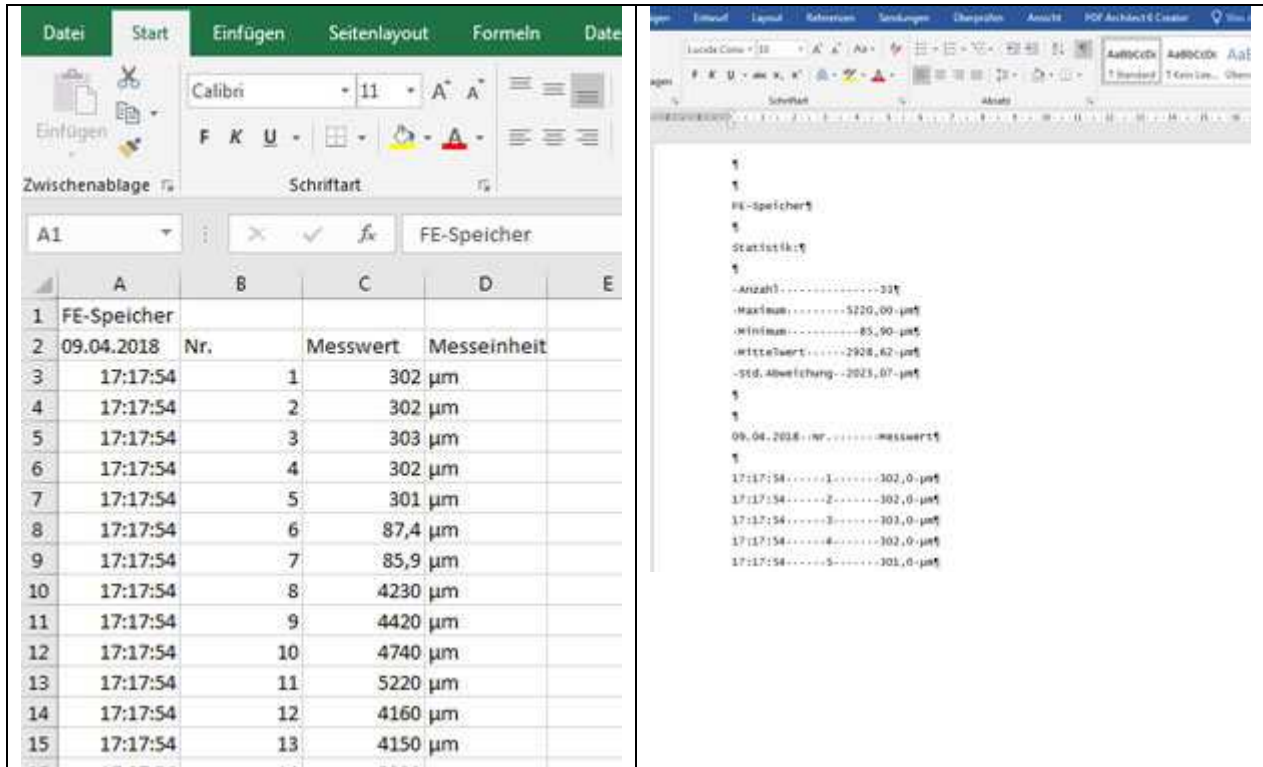
FE-Speicher		
Statistik:		
Anzahl	33	
Maximum	5220,00	µm
Minimum	85,90	µm
Mittelwert	2928,62	µm
Std. Abweichung	2025,07	µm
09.04.2018	Nr.	Messwert
17:17:54	1	302,0 µm
17:17:54	2	302,0 µm
17:17:54	3	303,0 µm
17:17:54	4	302,0 µm
17:17:54	5	301,0 µm
17:17:54	6	87,4 µm
17:17:54	7	85,9 µm
17:17:54	8	4230,0 µm
17:17:54	9	4420,0 µm
17:17:54	10	4740,0 µm

Example of a print output via button **Print**

Via Clipboard you can hand over the measuring series to subsequent applications.

The Buttons **MS Word** and **MS Excel** only will work if the named Microsoft Office components are installed, but not with Open Office.

When transferring to Excel, you have the choice of outputting the data as a table or, in addition, graphically as a chart.



OPEN DATA FILE

With then "Open Data File" button you can read in a saved data file again.

LANGUAGE AND HELP

The language can be switched between German and English in the upper menu bar.

In the Help menu, the manual can be opened in PDF format.

Under "Info" your device data (type, firmware version, MAC address) are visible.