INSTALLATION GUIDE
USER MANUAL

FP-5 TRANSFER

For FerroPro FP-5

Version 4.03 dated **2023-01**

List-Magnetik Dipl.-Ing. Heinrich List GmbH
D-70771 Leinfelden-Echterdingen Max-Lang-Str. 56/2
Fon: + 49 (711) 903631-0 Fax: + 49 (711) 903631-10
Internet: https://www.list-magnetik.com
E-mail: info@list-magnetik.de

QM-System ISO 9001:2015 zertifiziert

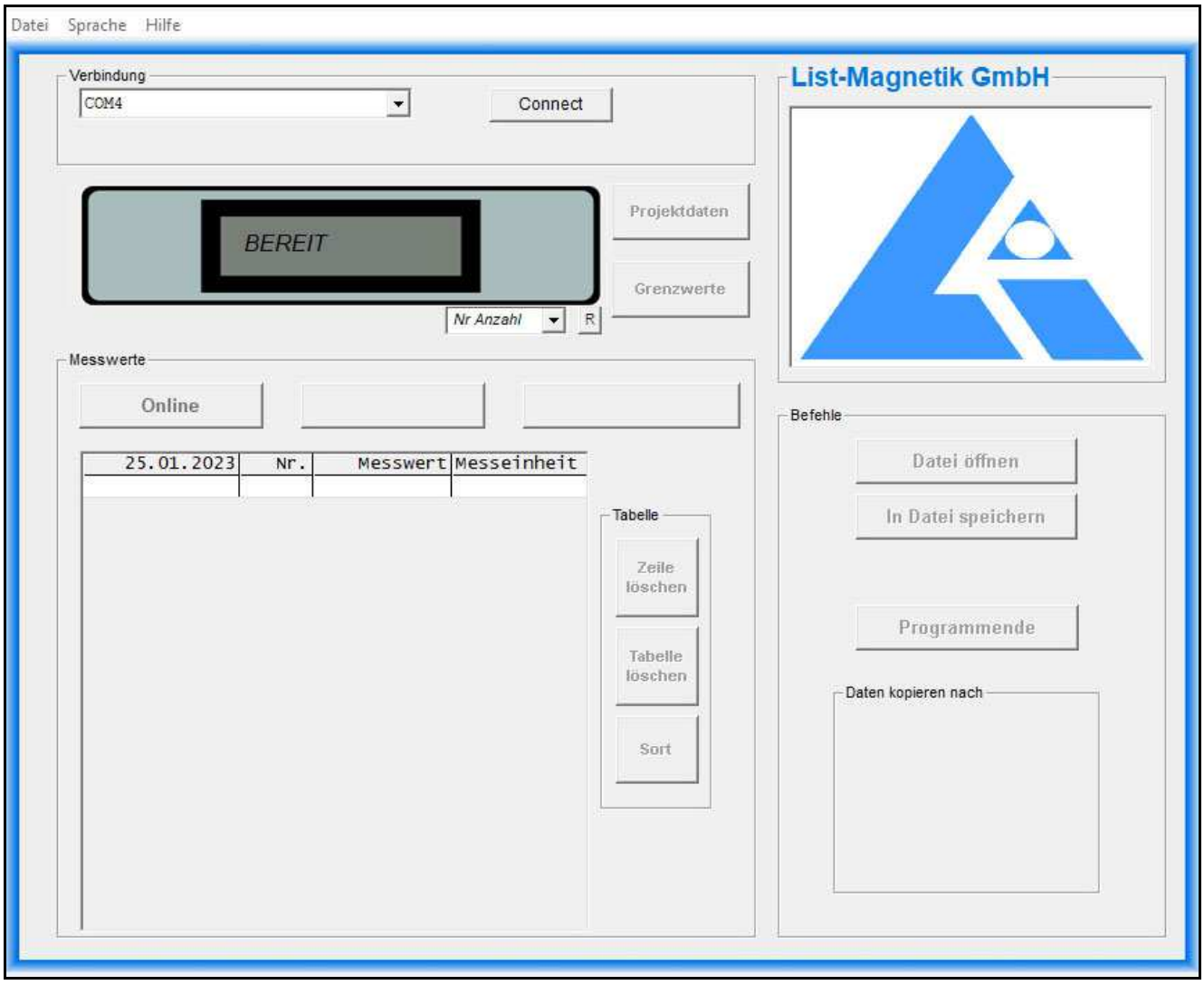
CONTENTS

FP-5 TRANSFER (2023-01)

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.

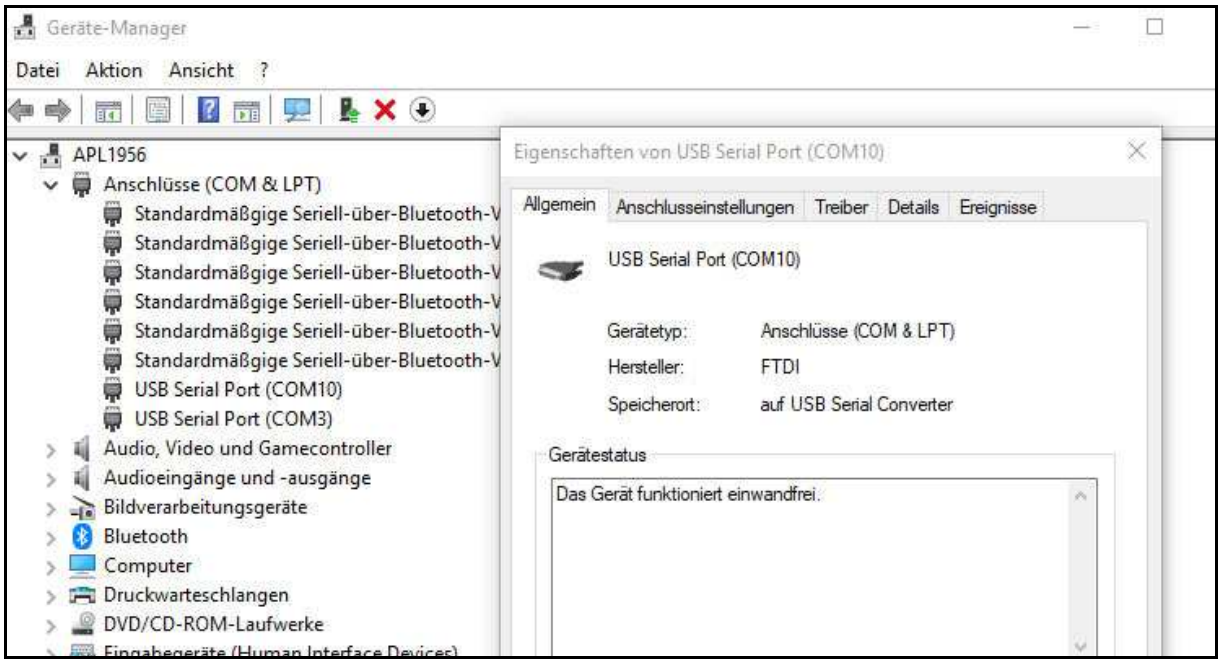
With FP-5 TRANSFER you can measure online, or read the device's memory, you can print the results or transfer them to various applications like Microsoft Word or Microsoft Excel.



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

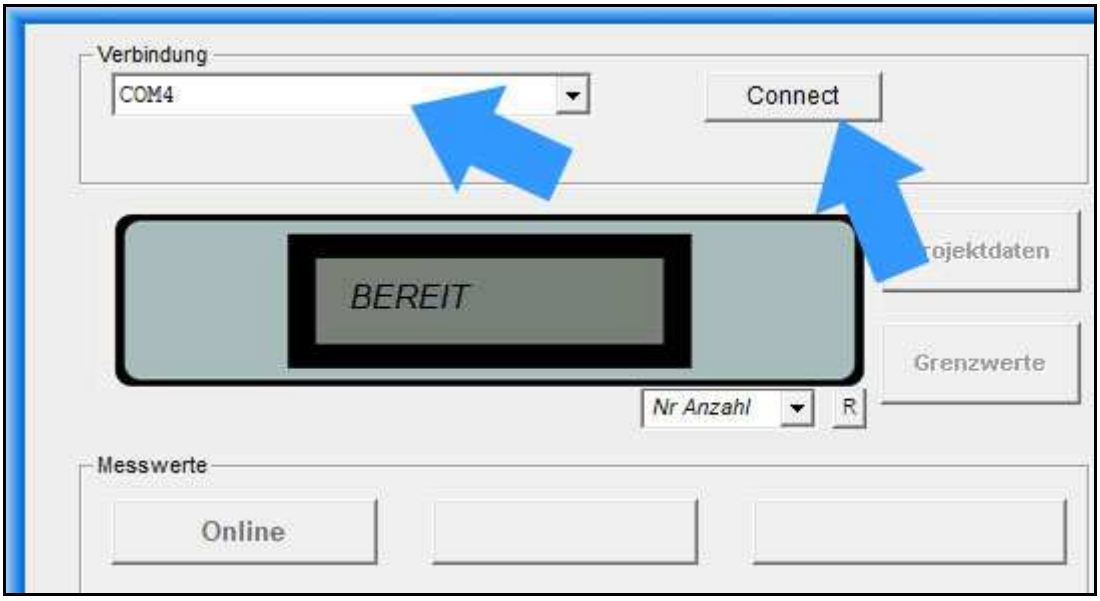
C:\ProgramData\List-Magnetik\FP-5 TRANSFER
C:\Users\<>\AppData\Local\VirtualStore\ProgramData\List-Magnetik \FP-5 TRANSFER
User-used and modified configuration data (COM port, language, limits, project data) and this manual

C:\Users\<>\AppData\Local\List-Magnetik\FP-5 TRANSFER
User created measurement series
Specification of the label of the project data

4. FUNCTIONS

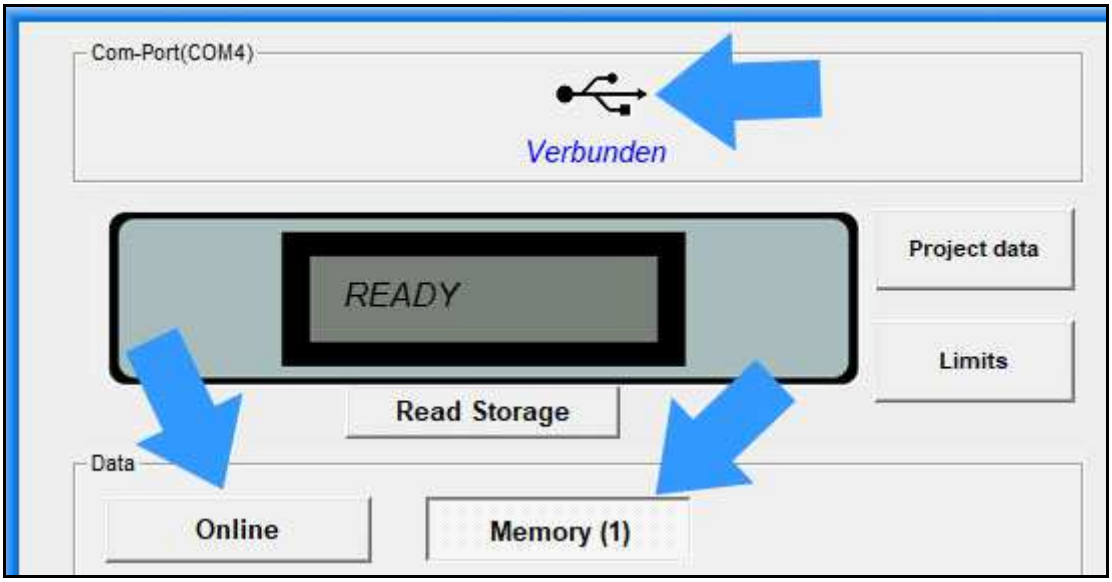
STEP 1: CONNECT

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.

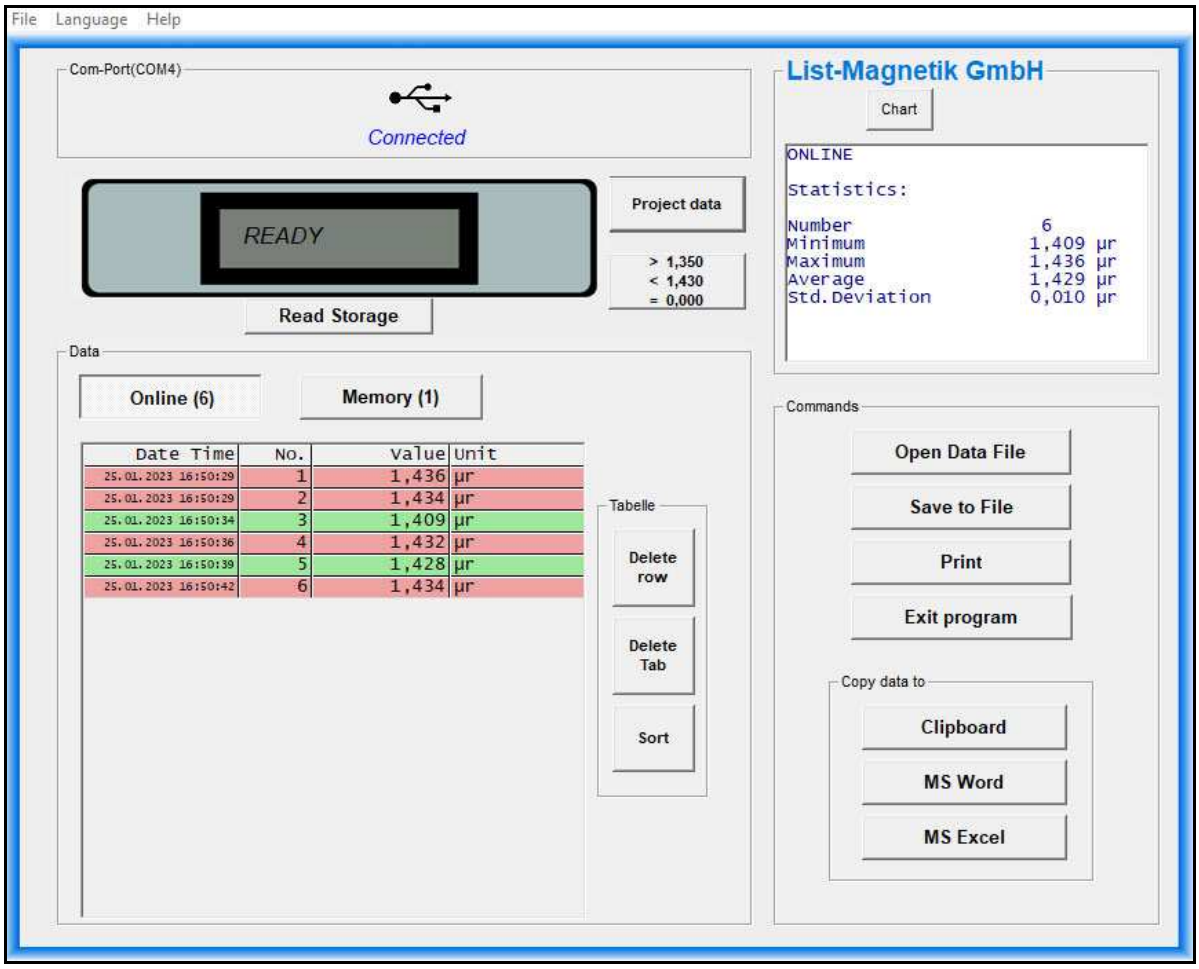
The currently selected device storage is read in directly after establishing the connection. The name and number of the memory are shown in the column header.
The left of the 2 buttons above the table is shown as "Online".



MEASURING ONLINE

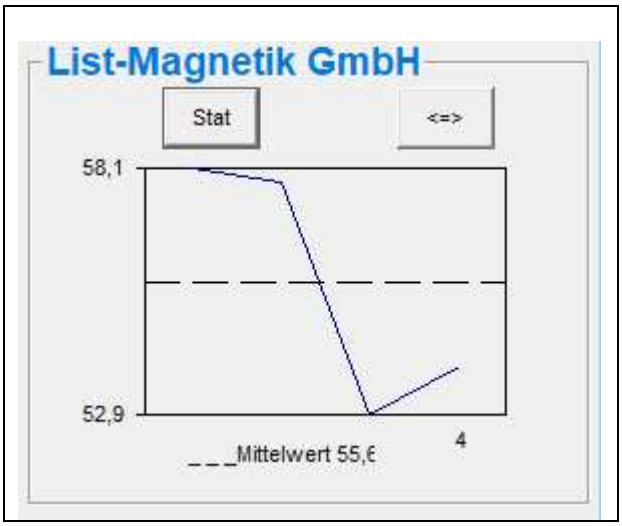
Now you can start your work.

For example, you can directly perform online measurements.
To do this, click on the "Online" button on the left above the measured value table.

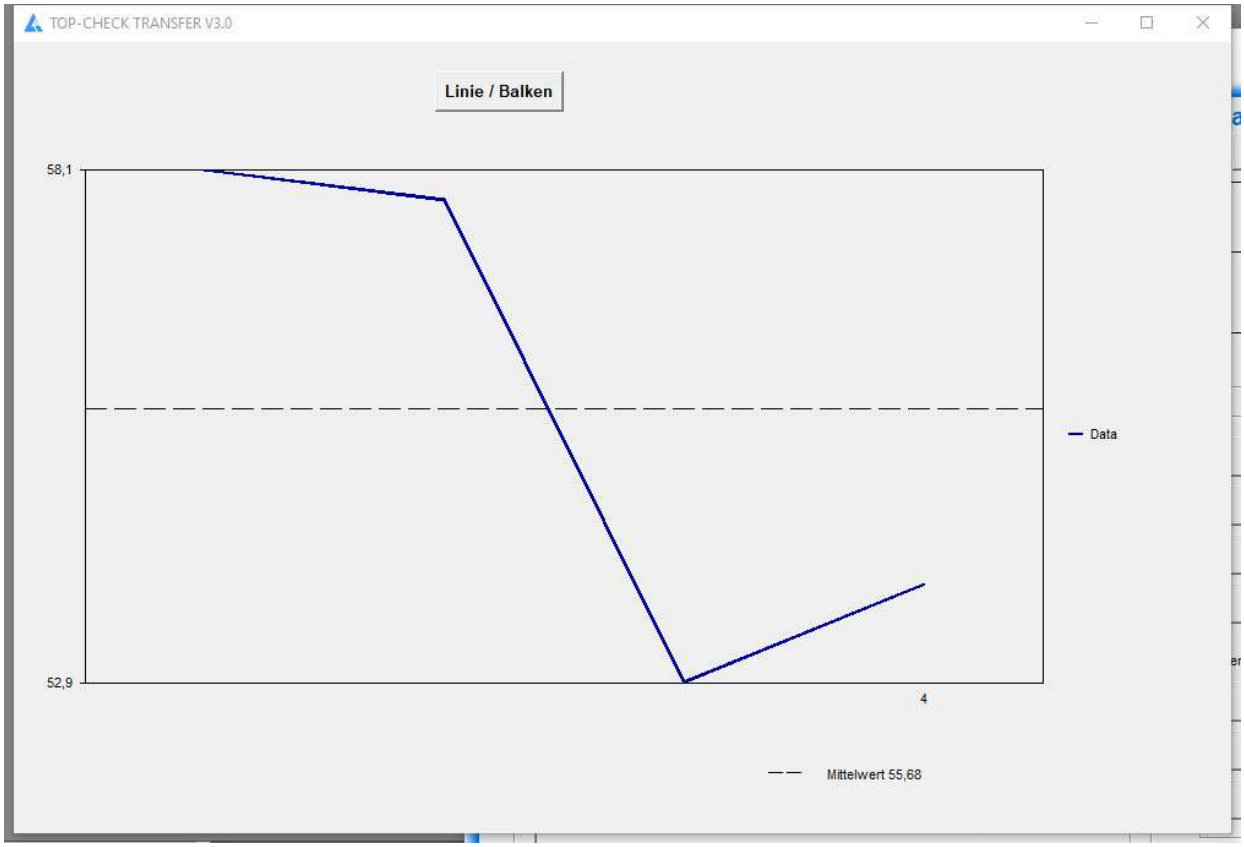


Statistical values are automatically generated from the measurements: Minimum, Maximum, Average (Mean) and Standard Deviation.
Note: The Standard Deviation is calculated with (n-1).

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.

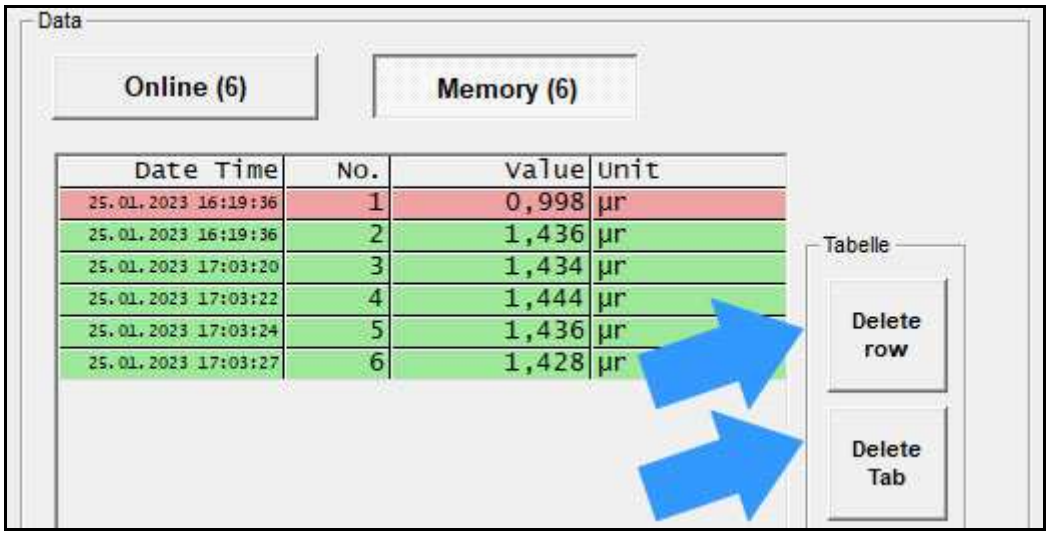
As long as the transfer is running all activities are blocked. The counter behind the title of the measurement series, counts the transferred measurements

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.



SORT TABLE

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

PROJECT DATA

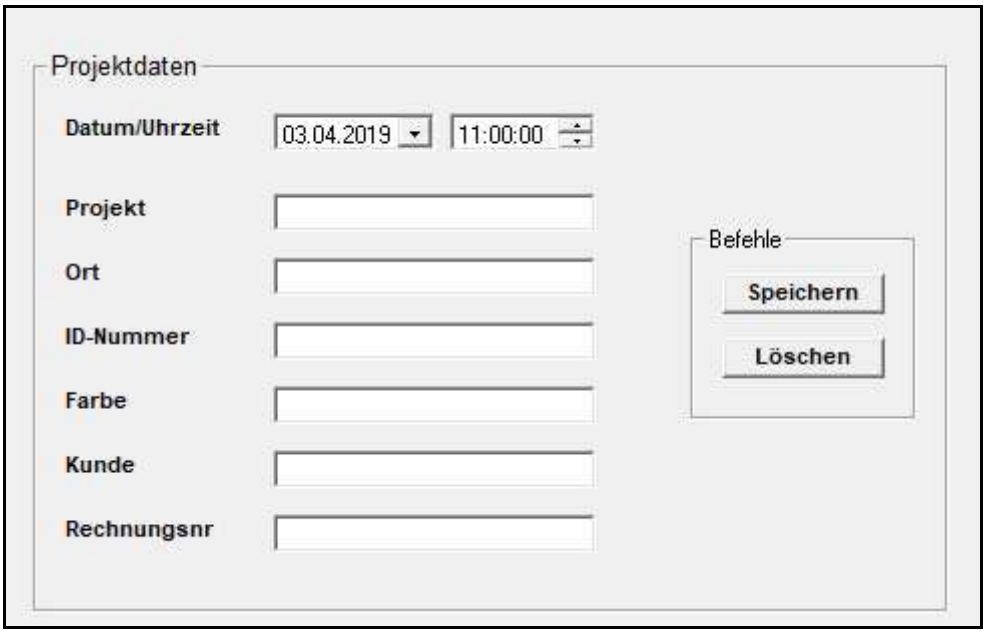
FP-5 TRANSFER allows you to edit project data for a measurement series. This project data will then be provided during printing, when transferring to Microsoft Word or Microsoft Excel, so that you can document the series of measurements.

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\<Your Name>\AppData\Local\List-Magnetik\FP-5 TRANS-FER"), you can define 6 fixed terms in German and English for yourself.

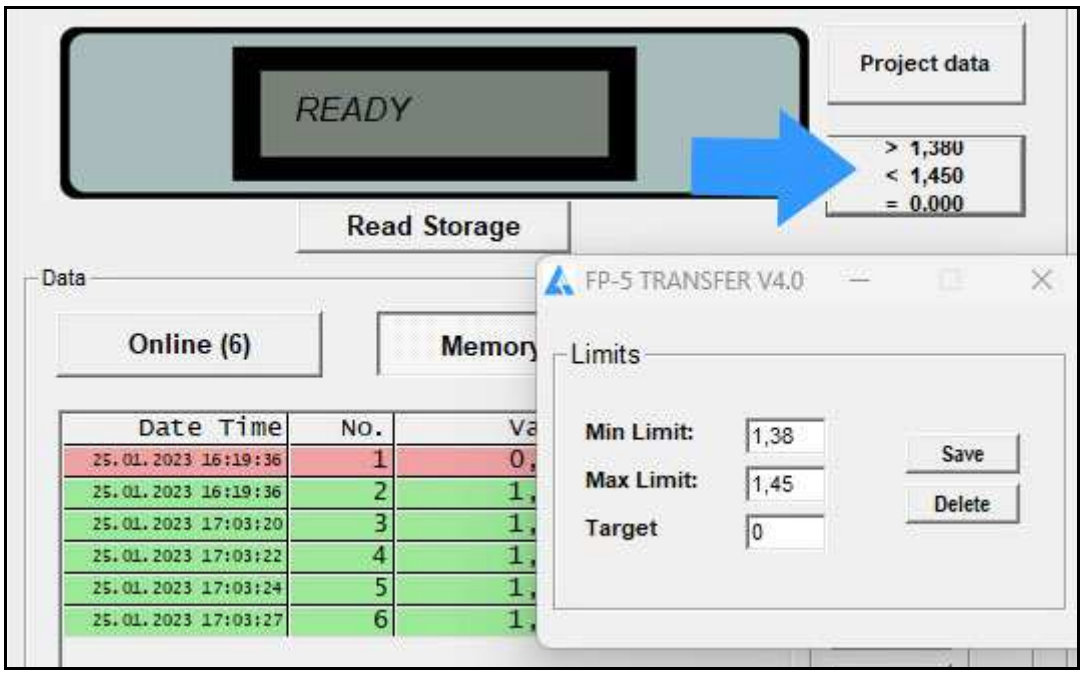
Example:

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

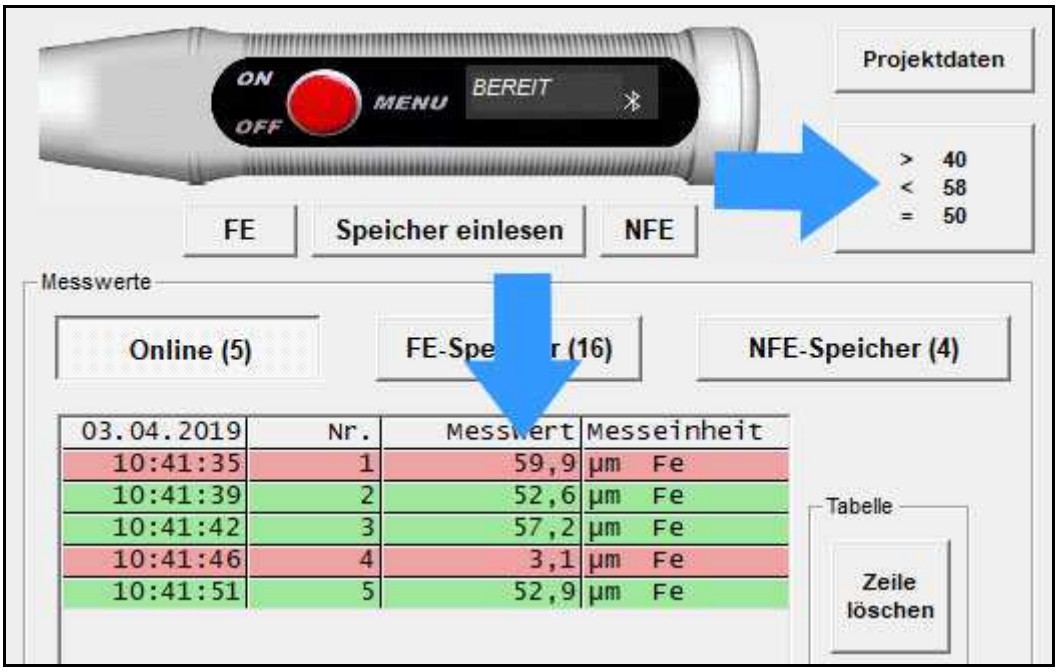


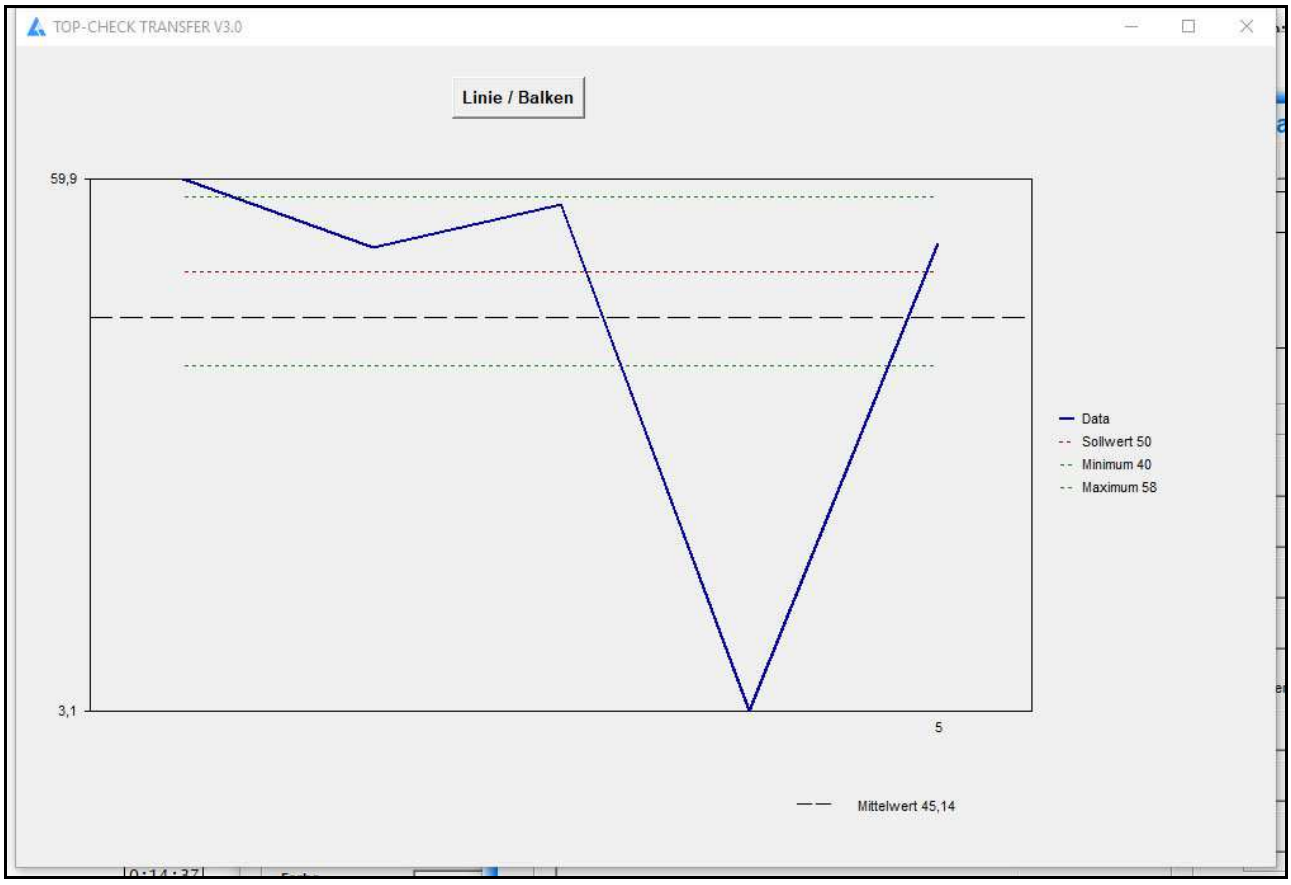
LIMITS

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.

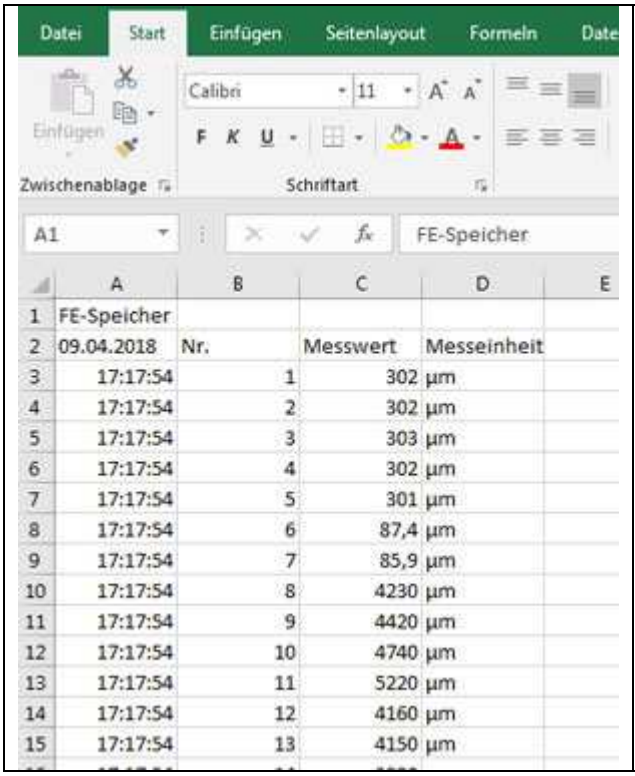
```
FE-Speicher

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**

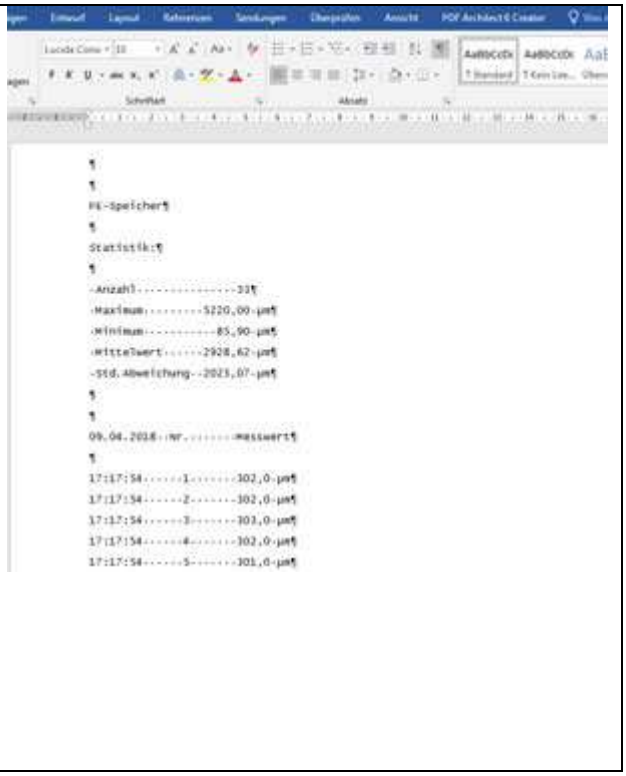
Via Clipboard you can hand over the measuring series to subsequent applications.

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.



	A	B	C	D	E
1	FE-Speicher				
2	09.04.2018	Nr.	Messwert	Messeinheit	
3	17:17:54	1	302	µm	
4	17:17:54	2	302	µm	
5	17:17:54	3	303	µm	
6	17:17:54	4	302	µm	
7	17:17:54	5	301	µm	
8	17:17:54	6	87,4	µm	
9	17:17:54	7	85,9	µm	
10	17:17:54	8	4230	µm	
11	17:17:54	9	4420	µm	
12	17:17:54	10	4740	µm	
13	17:17:54	11	5220	µm	
14	17:17:54	12	4160	µm	
15	17:17:54	13	4150	µm	



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.