

INSTALLATION GUIDE USER MANUAL

MP-800 TRANSFER

For MP-800A and MP-800T with firmware version 10.1 and up

Version 3.01 dated **2019-05**



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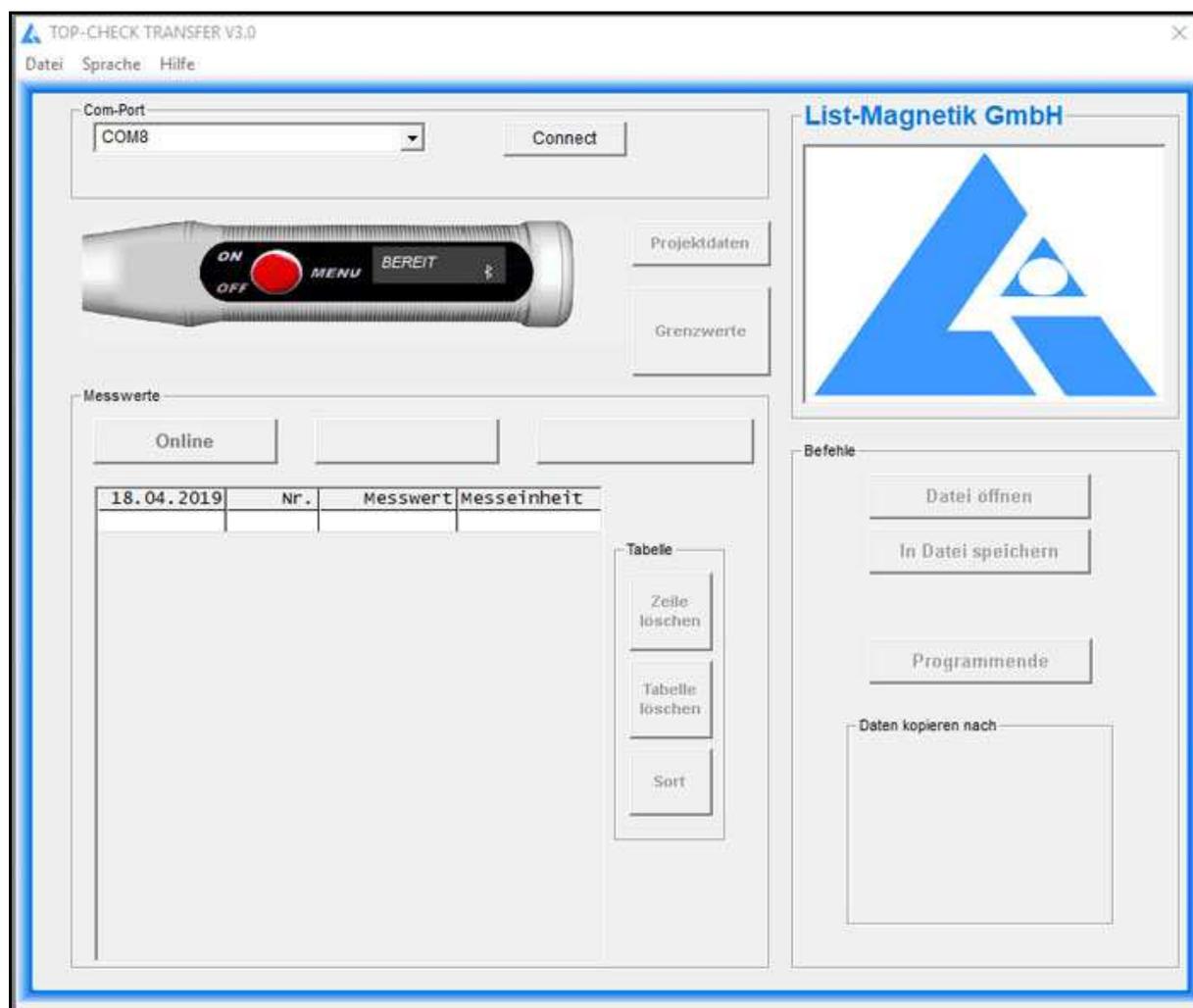
MP-800 TRANSFER (2019-05)

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1. MP-800 TRANSFER APPLICATION

At <https://www.list-magnetik.com/software> you can obtain the free of charge application **MP-800 TRANSFER** to transfer data from your MP-800A and MP-800T device to a Windows PC or laptop.

With MP-800 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.



The stability of the Bluetooth connection is better the closer you hold the device to the PC or Bluetooth dongle.

If you have connection problems, please shorten the distance to 30 cm.

2. PREPARING BLUETOOTH CONNECTION

Does your PC / laptop have a built-in Bluetooth interface?

If yes, skip point 2a and continue at 2b.

A) INSTALLATION OF THE BLUETOOTH USB DONGLE



For MP-800A and MP-800T a Bluetooth dongle is included as shown.

The additional installation of a driver software can be used for communication setup between MP-800A/T and a Windows PC. Please check first, if the connection between MP-800A/T and your PC via Bluetooth works without software installation, only by inserting the Bluetooth dongle.

With Windows 10, it is easily possible without further installation.

If you can't connect, perform the installation of the driver that can be obtained at

<http://www.list-magnetik.com/de/download>

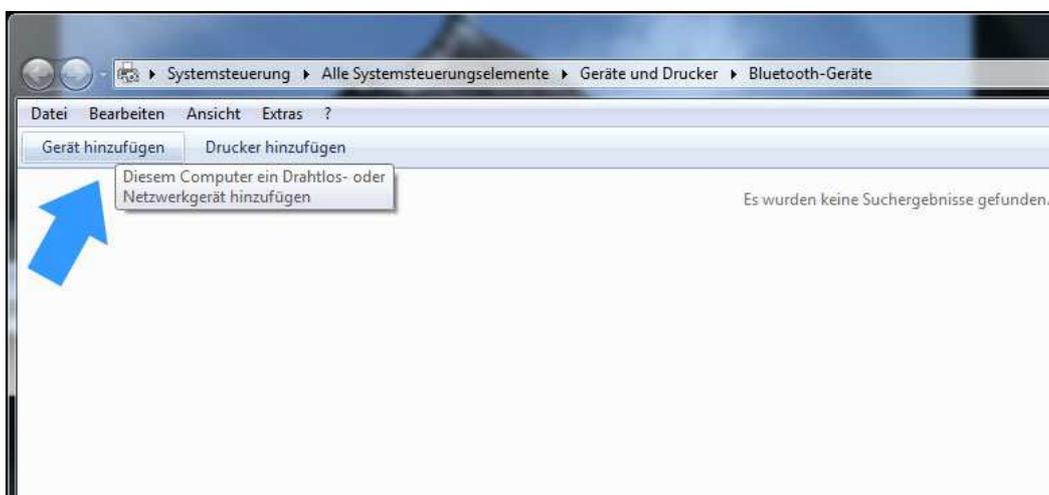
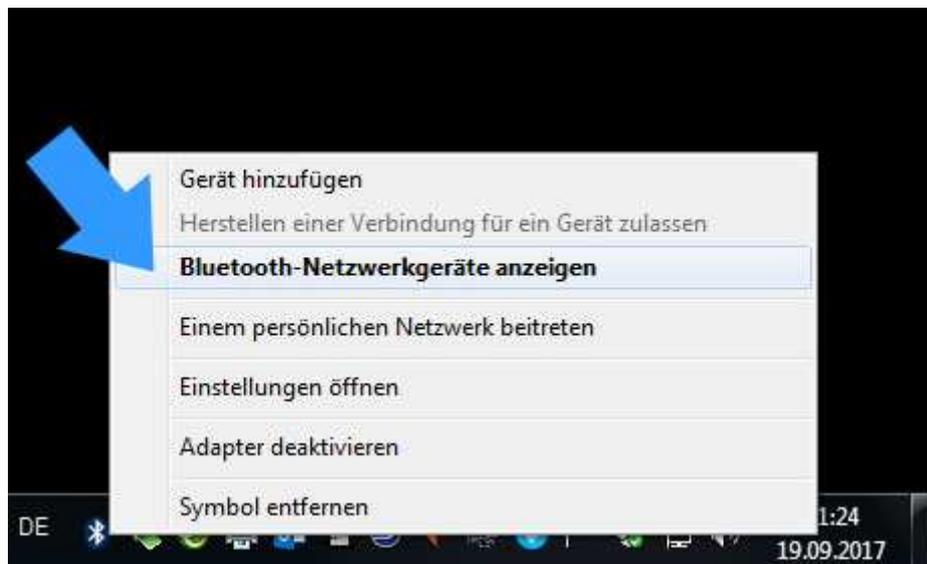
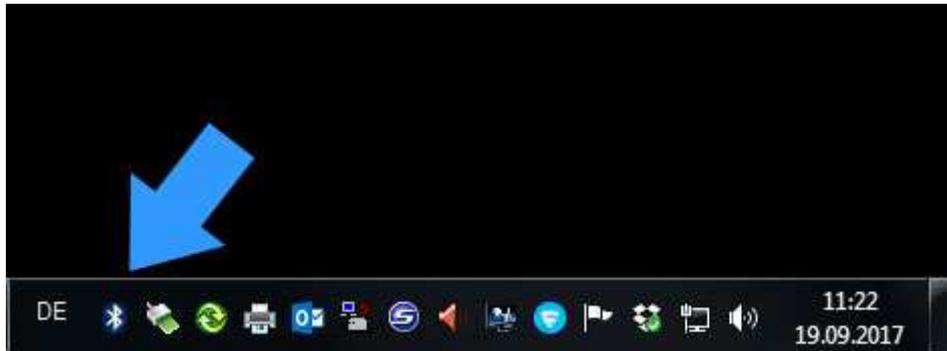
under the heading "Software". The file is named BCM20702 _..., depending on the version of your Windows operating system. It is available for Windows XP, Win 7 or Win 8.

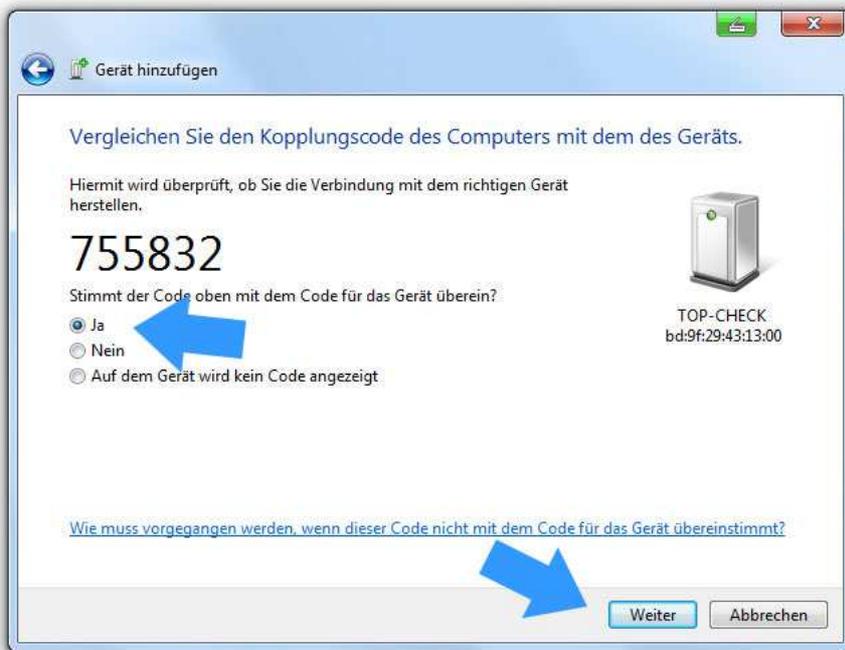
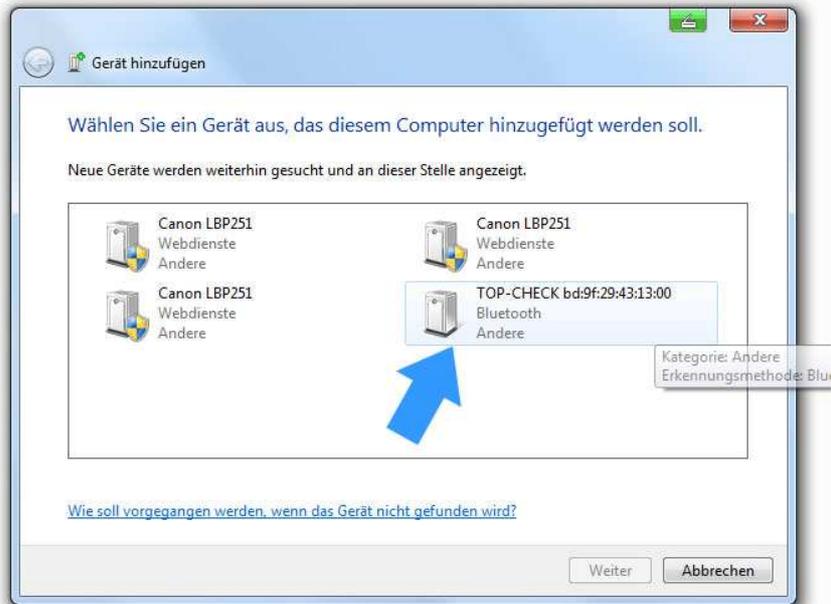
B) PAIRING MP-800A/T

Your MP-800A/T device must be paired with the PC.

For this purpose, the coupling must be executed on both devices.

The function **SETUP / BLUETOOTH / ON** must be executed at the device, and afterwards a device search in the Bluetooth menu on the PC.

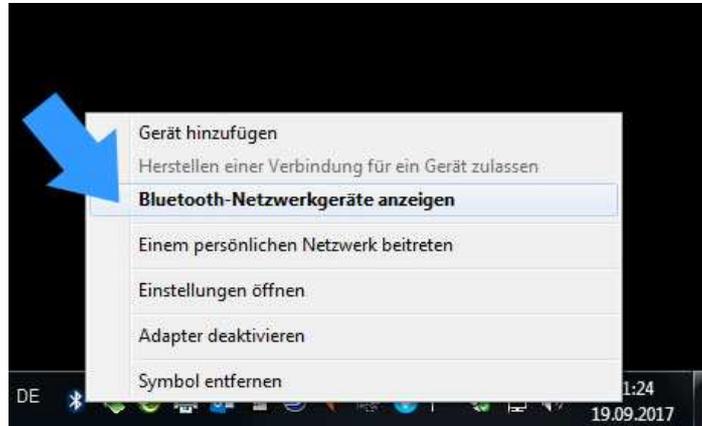




On the PC, the identified device must be selected, and the coupling request must be confirmed. An identification number is shown, which you can confirm but ignore.

DETECTING THE COM-PORT FOR BLUETOOTH

After successful coupling, MP-800A/T is assigned to a so-called COM Port. This assignment remains permanent. Before starting the application MP-800 TRANSFER, you must know the number of this port.



To do this, please determine the assigned COM port number in the Bluetooth device menu. You need to know this at the start of the application MP-800 TRANSFER.

For Windows 10, 2 COM ports are displayed, take the "outbound" number.

Windows 7

The screenshot shows the 'Eigenschaften von TOP-CHECK bd:9f:29:43:13:00' window. The 'Bluetooth' tab is active, showing 'Serieller Anschluss (SPP) "Serial Port"' is checked and assigned to 'COM23'. A blue arrow points to 'COM23'.

Windows 10

The screenshot shows the Windows 10 'Bluetooth-Geräte verwalten' settings. A blue arrow points to the device 'TOP-CHECK bd:9f:29:43:13:00'. Another blue arrow points to the 'Bluetooth-Einstellungen' window, which displays a table of COM ports:

Anschluss	Richtung	Name
COM10	Ausgehend	_TOP-CHECK_2079 "Serial port"
COM11	Ausgehend	TOP-CHECK bd:9f:29:43:13:00 "Serial ..."
COM12	Eingehend	TOP-CHECK bd:9f:29:43:13:00
COM9	Eingehend	TOP-CHECK_2079

A blue arrow points to the 'Ausgehend' direction for COM11.

3. INSTALLING THE APPLICATION

The installation package is called „MP-800 TRANSFER_Vxx_Setup.exe“ xx = version number) and available for download at **<https://www.list-magnetik.com/software>**

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\MP-800 TRANSFER
Constant program components

C:\ProgramData\List-Magnetik\MP-800 TRANSFER
C:\Users\<>\AppData\Local\VirtualStore\ProgramData\List-Magnetik
\MP-800 TRANSFER

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

C:\Users\<>\AppData\Local\List-Magnetik\MP-800 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 that you detected in chapter 2. Your MP-800A/T must be switched on, and Bluetooth must be active in MP-800A/T. You can see it: the Bluetooth indicator at the bottom right.



After successful connection, the description changes to "Connected" and the selection box for the COM port becomes invisible. The selected and connected COM port is now shown in the frame headline. This selected port is retained for the next program call even after the program has finished.

The device storage is read directly after establishing the connection.

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 MP-800 TRANSFER V3.01 software interface. At the top left, it says "Com-Port(COM6)" and "Verbunden" (Connected). Below this is an image of the device with a digital display showing "229 G". To the right of the device image are "Projektdaten" (Project Data) and a list of values: "> 200,0", "< 250,0", and "= 220,0". Below the device image is a "Speicher einlesen" (Load Memory) button. In the center, there are two buttons: "Online (16)" and "Speicher (5)". Below these is a table of measurements:

15. 05. 2019	Nr.	Messwert	Messeinheit
11:20:27	1	64,7	G
11:20:28	2	219,0	G
11:20:28	3	228,0	G
11:20:28	4	227,0	G
11:20:29	5	228,0	G
11:20:29	6	228,0	G
11:20:29	7	228,0	G
11:20:30	8	228,0	G
11:20:30	9	229,0	G
11:20:30	10	229,0	G
11:20:31	11	228,0	G
11:20:31	12	229,0	G
11:20:32	13	229,0	G
11:20:32	14	229,0	G
11:20:32	15	229,0	G
11:20:33	16	229,0	G

To the right of the table are buttons for "Tabelle" (Table) operations: "Zeile löschen" (Delete Row), "Tabelle löschen" (Delete Table), and "Sort". Below these is a red "Stopp" (Stop) button. On the far right, there is a "List-Magnetik GmbH" section with a "Chart" button and a "+/-" button. Below this is an "ONLINE" section with "Statistik: mit Absolutwerten" (Statistics: with Absolute Values) and a table of statistical values:

Anzahl	16
Minimum	64,70 G
Maximum	229,00 G
Mittelwert	217,61 G
Std. Abweichung	40,85 G

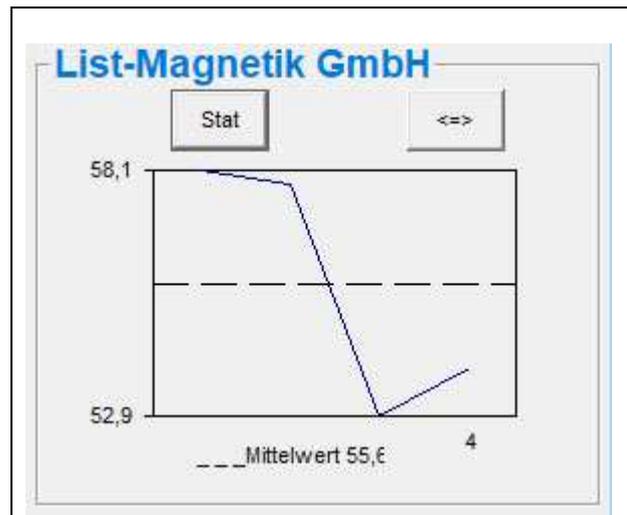
Below the statistics is a "Befehle" (Commands) section with buttons for "Datei öffnen" (Open File), "In Datei speichern" (Save to File), "Drucken" (Print), and "Programmende" (End Program). At the bottom of this section is a "Daten kopieren nach" (Copy Data to) section with buttons for "Clipboard", "MS Word", and "MS Excel".

The online measurement permanently receives data from the device. Use the Start / Stop button on the bottom right, to interrupt the transfer, in order to limit the number of values. Likewise, you can start the transfer again.

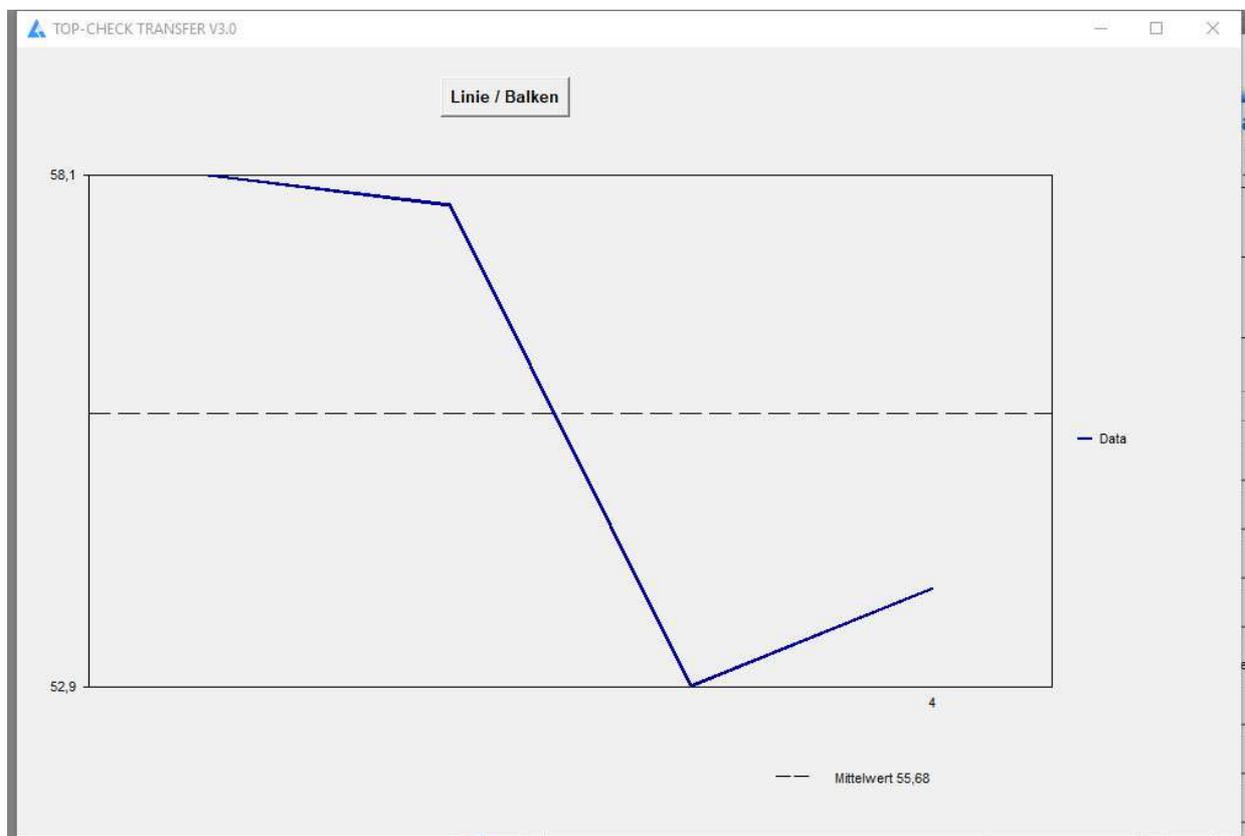
Statistical values are automatically generated from the second measurement: Minimum, Maximum, Average (Mean) and Standard Deviation.

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.

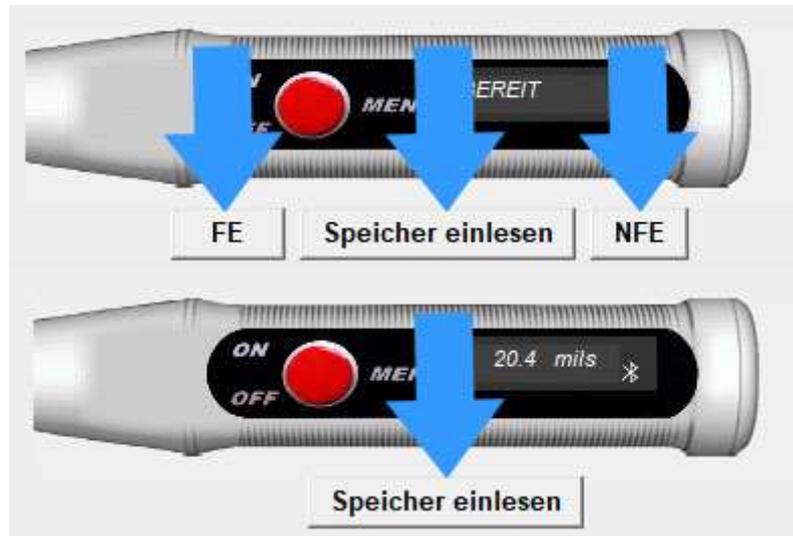


Absolute values or observance of the sign

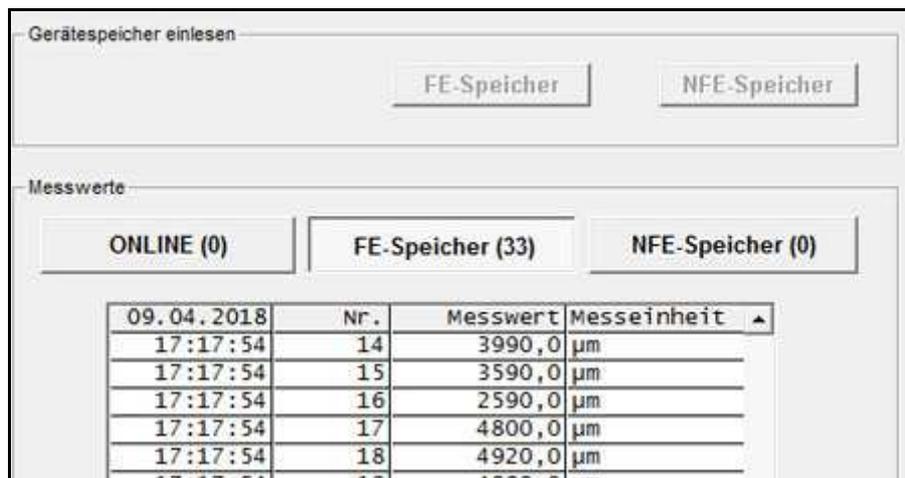
For measurements of magnetic field strength, the value may be positive (north pole) or negative (south pole), depending on the location of the probe or the magnet. For many applications, the polarity is irrelevant, only the absolute value is considered. Therefore, for the measurement with the magnetic field meter MP-800, the statistical evaluation is preset to "absolute". You can toggle between the two viewing modes using the **+/-** button on the right above the statistics. When colorizing the measured values due to the limits, and when transferring the data to Excel, this current setting **+/-** is taken into account.

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 the 'Messwerte' interface with three tabs: 'Online (4)', 'FE-Speicher (13)', and 'NFE-Speicher (4)'. The 'Online (4)' tab is active, displaying a table with the following data:

	Nr.	Messwert	Messeinheit
09:50:56	1	56,5	µm Fe
09:51:53	2	58,7	µm Fe
09:51:55	3	57,4	µm Fe
09:51:58	4	58,8	µm Fe

To the right of the table is a 'Tabelle' panel containing two buttons: 'Zeile löschen' and 'Tabelle löschen'. 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 'Messwerte' interface with the same three tabs. The 'Online (4)' tab is active, and the table is now sorted in descending order of measurement value:

	Nr.	Messwert	Messeinheit
09:51:58	4	58,8	µm Fe
09:51:55	3	57,4	µm Fe
09:51:53	2	58,7	µm Fe
09:50:56	1	56,5	µm Fe

The 'Tabelle' panel on the right now includes a third button, 'Sort', located below 'Tabelle löschen'. A blue arrow points to the 'Sort' button, and another blue arrow points upwards from the bottom of the table area.

PROJECT DATA

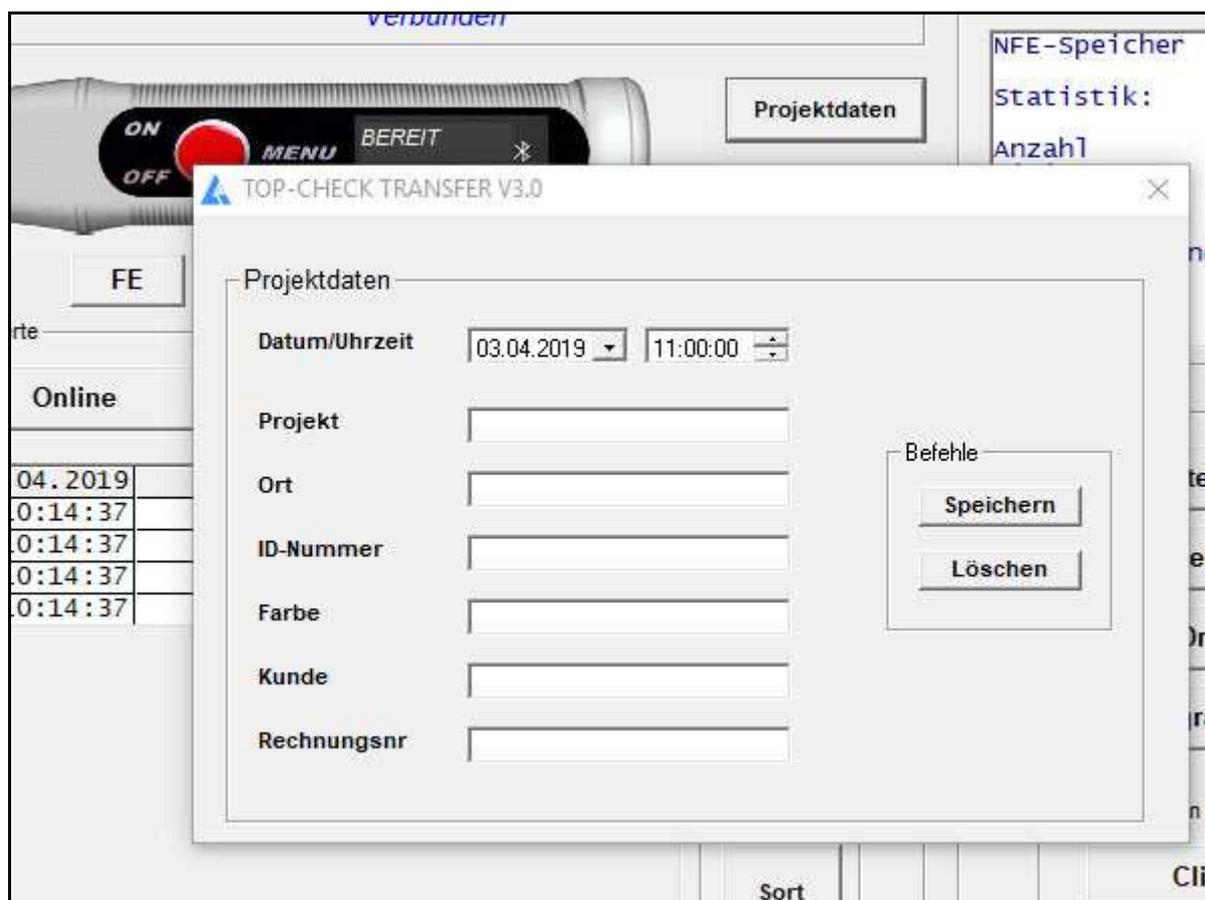
MP-800 TRANSFER allows you to edit project data for a measurement series. This project data will then be provided during printing, when transferring to Microsoft Word or Microsoft Excel, so that you can document the series of measurements.

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\MP-800 TRANSFER"), you can define 6 fixed terms in German and English for yourself.

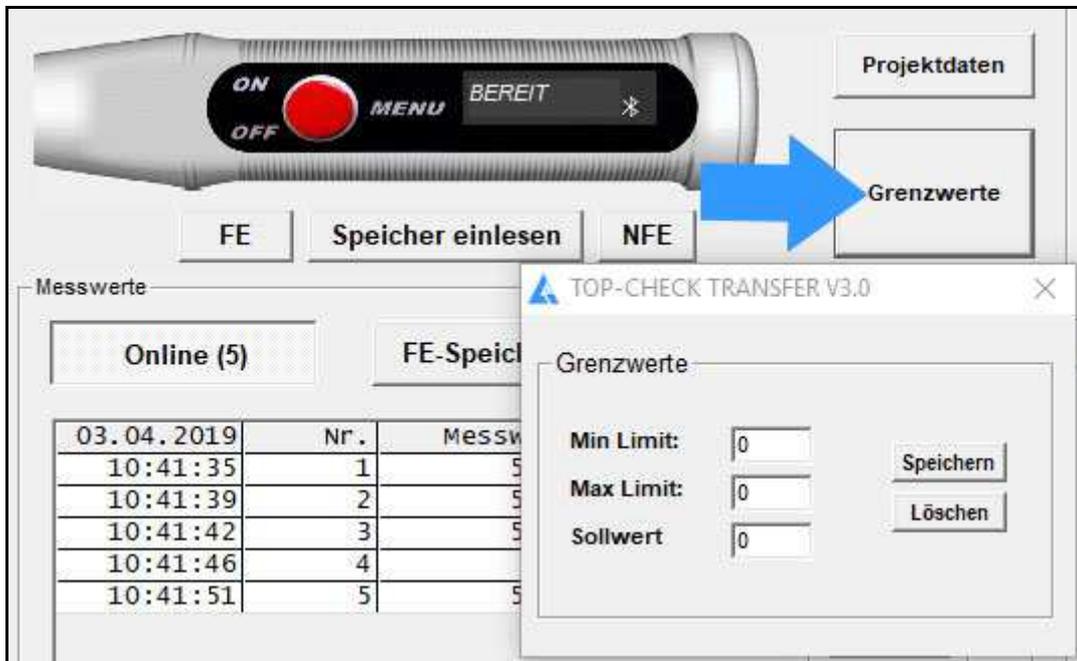
Example:

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

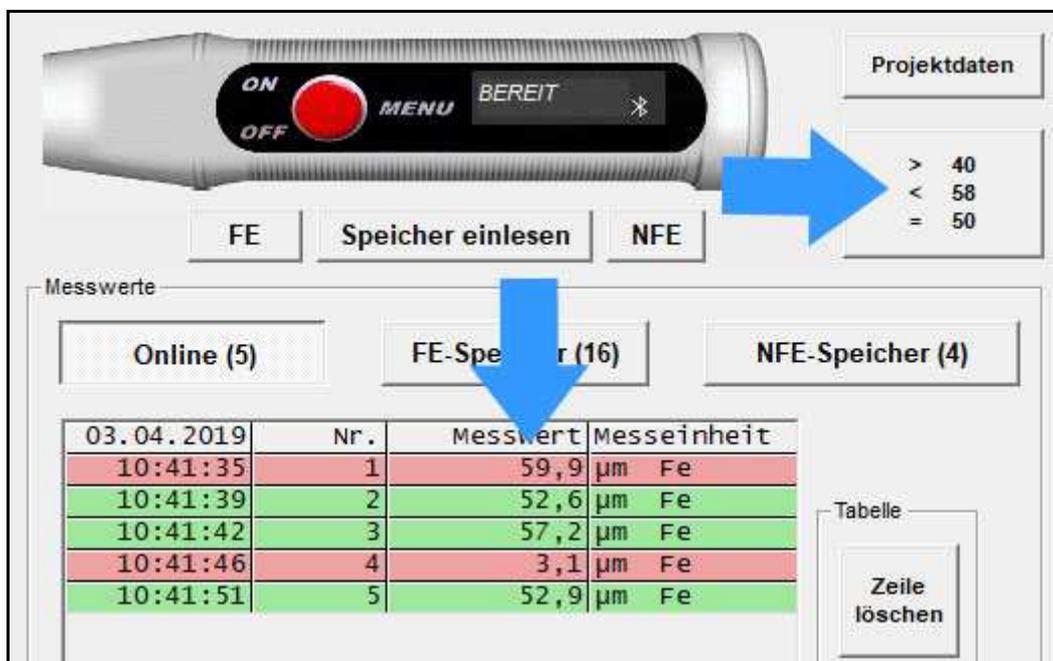


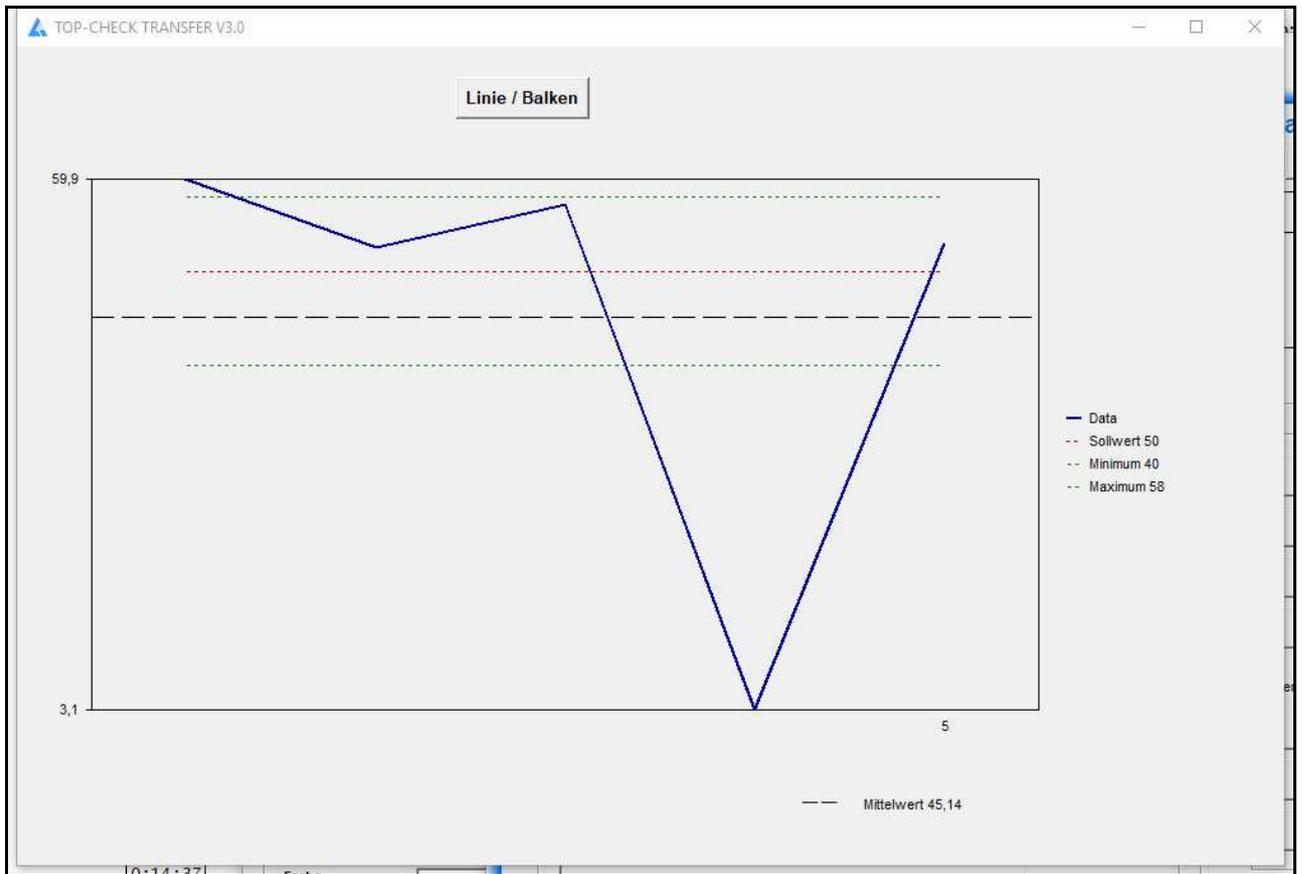
LIMITS

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: Input of min limit = 40, max limit = 58.





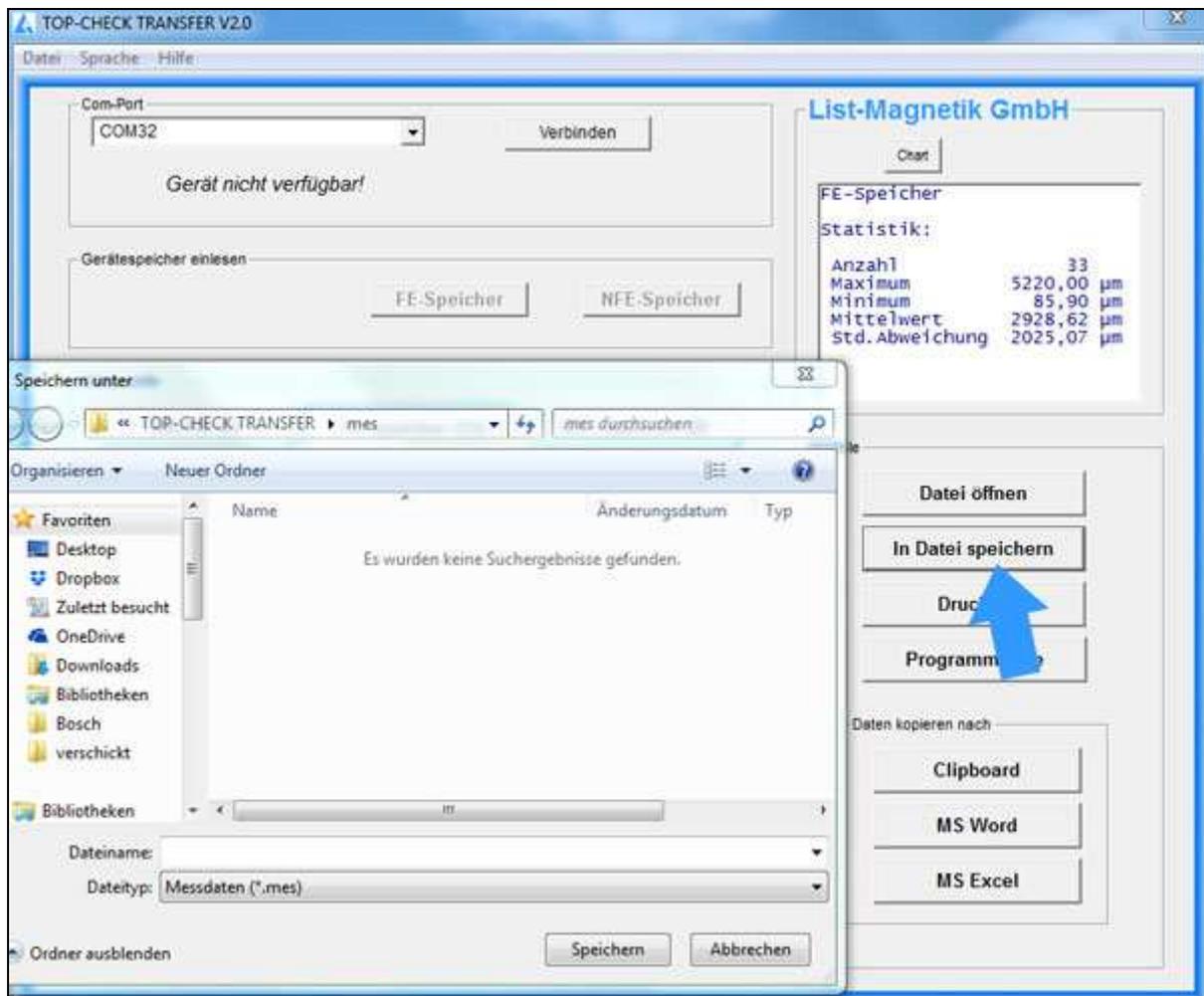
Representation of the limits and the target in the line chart

Absolute values or observance of the sign when measuring the magnetic field

When coloring the measured values based on the limits, the current setting $\boxed{+/-}$ is taken into account.

OUTPUT: FILE, PRINTER, APPLICATIONS

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.

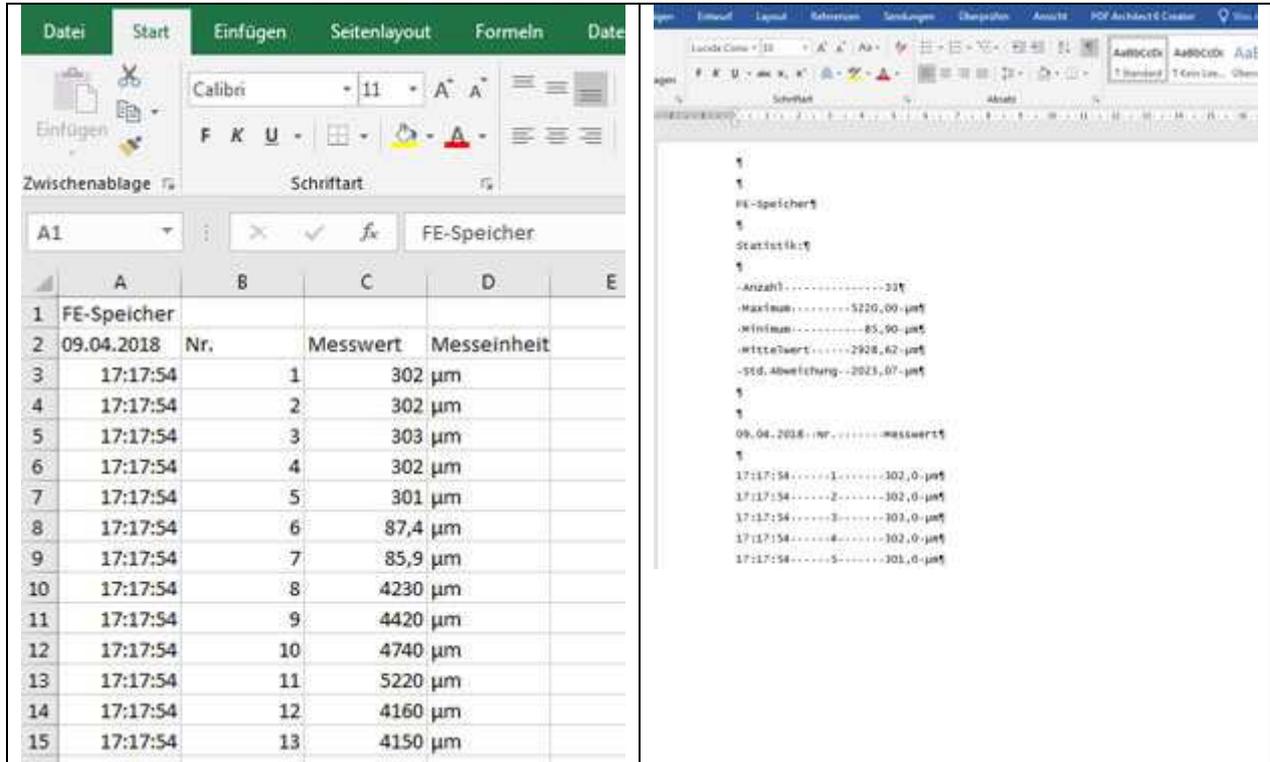
FE-Speicher		
Statistik:		
Anzahl		33
Maximum	5220,00	μm
Minimum	85,90	μm
Mittelwert	2928,62	μm
Std. Abweichung	2025,07	μm
09.04.2018		
Nr.	Messwert	
17:17:54	1	302,0 μm
17:17:54	2	302,0 μm
17:17:54	3	303,0 μm
17:17:54	4	302,0 μm
17:17:54	5	301,0 μm
17:17:54	6	87,4 μm
17:17:54	7	85,9 μm
17:17:54	8	4230,0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



Absolute values or observance of the sign when measuring the magnetic field

When transferring the data to Excel, the current +/- setting is taken into account.

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.