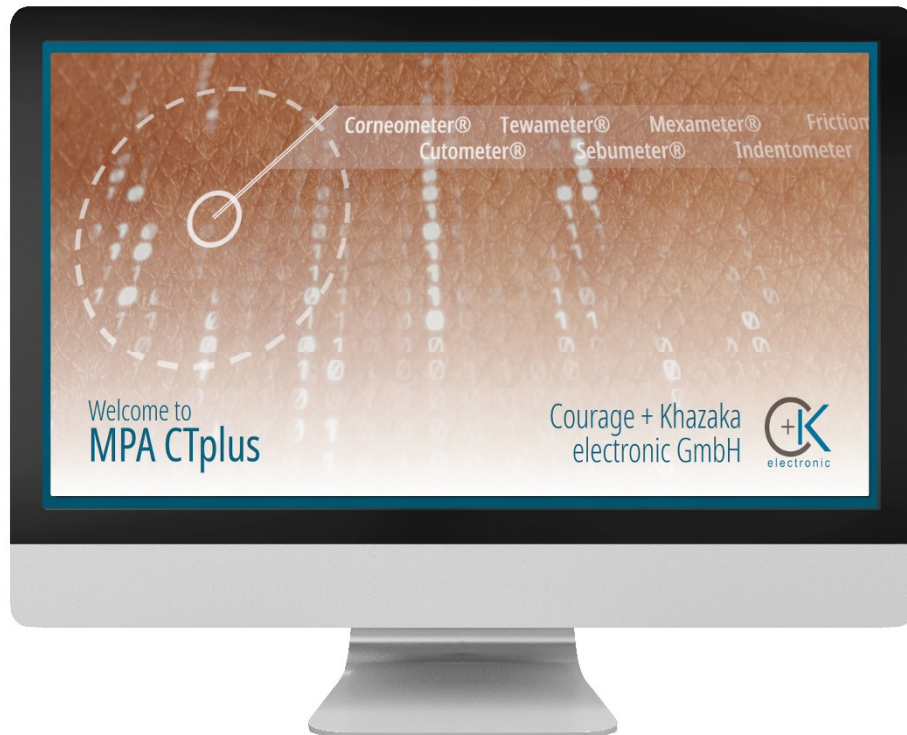


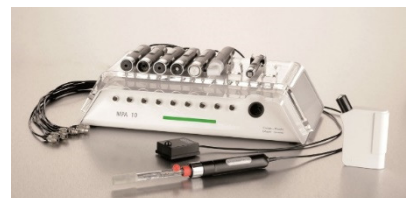
Software MPA CTplus

This new software is a **revolutionary step** into a modern use of the C+K probe family and offers a variety of new, convenient features.



Main Advantages at a glance:

- For the first time **Cutometer®** and all other **C+K probes** can be operated in **one software** easily and conveniently.
- Software works with **any MPA system** and Cutometer® Dual MPA 580 as well as MDD devices and supports **several devices at the same time**.

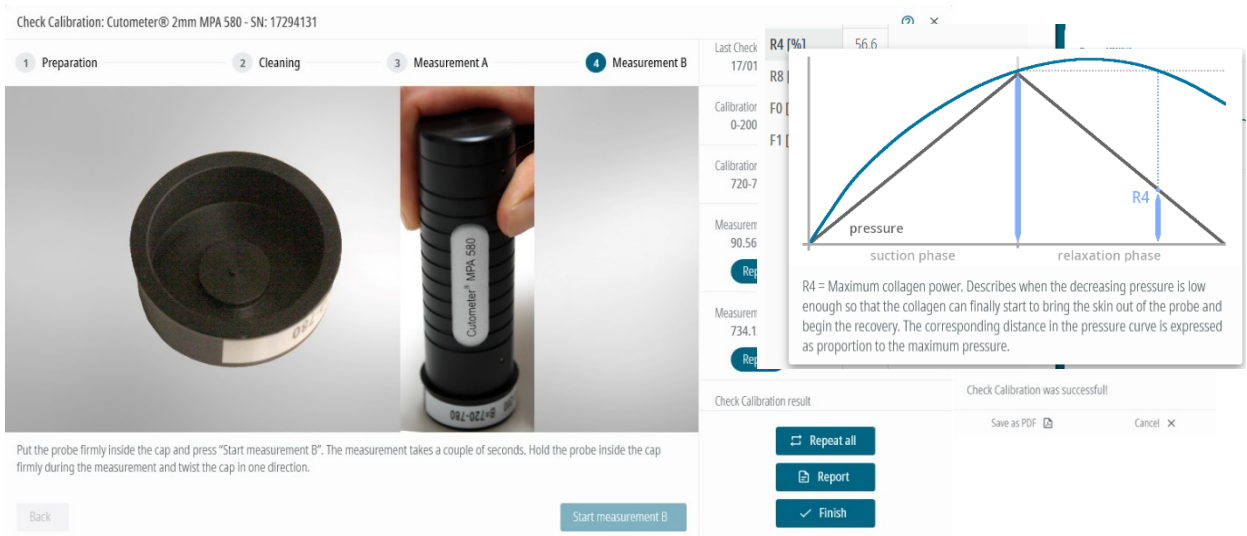
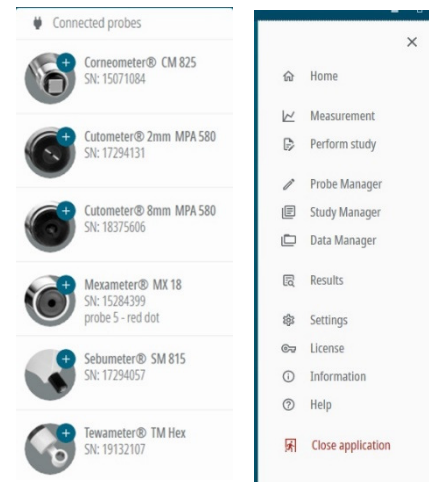


- **Convenient, intuitive, modern software**, easy to **navigate**.
- Perform **free measurements** anywhere, with any probe in any order or use the **study manager to design your study** and **save as many clicks & as much time** as possible.
- Easy organization of the measurements in **sessions** and **takes**.
- **Graphical display** of the measurements and **numerical result values** side by side.



- When the **Ambient Condition** Sensor RHT 100 is connected, relative humidity and temperature are constantly recorded and saved with the measurements.

- **Tags:** new, modern way of identifying measurements in the database.
- **All information go into the database**, convenient possibility of filtering the data you want to export for statistical analysis with special export assistant.
- **Easy and self-explanatory check calibration** function for the probes with report.



- New, **exciting additional aging-parameters** for the **Cutometer®**.
- Graphic **explanation of complex results**.
- **Intelligent software** displaying messages useful for handling or servicing the probe.

Negative TEWL values indicate that the probe may have been applied to the skin upside down.

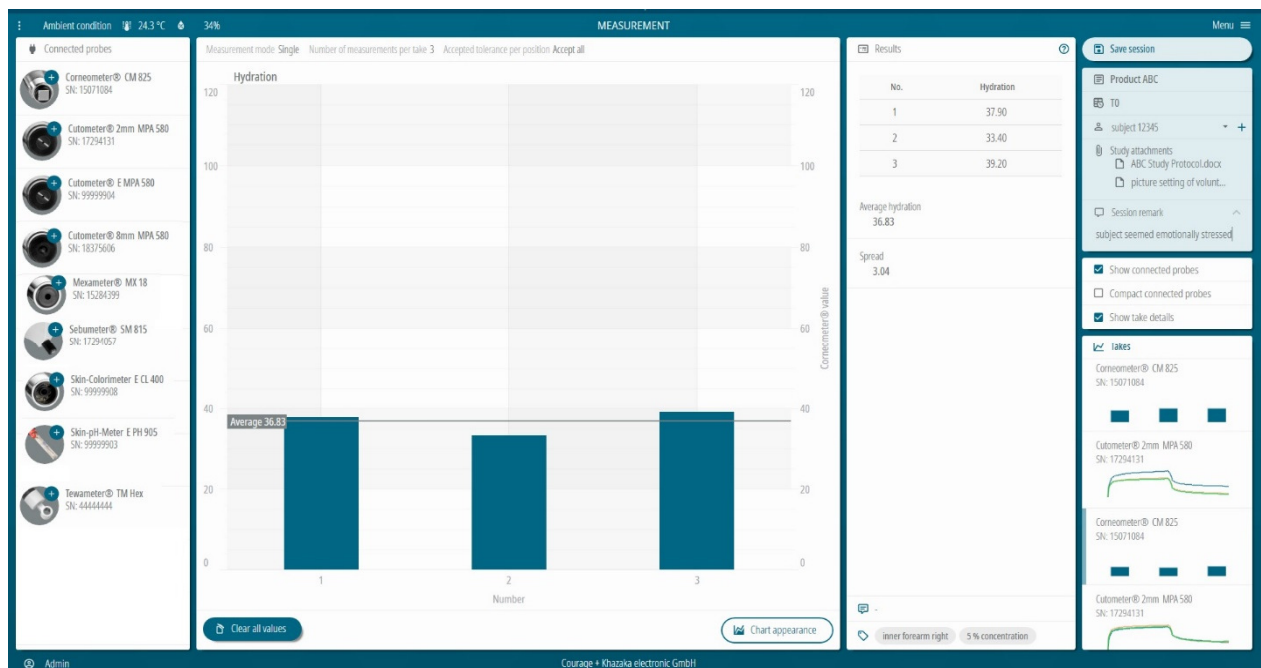
Structure of the software

To facilitate your work, the measurement window is organized as a **session**. A session corresponds to measurements on one subject in a point in time (T).

A session can consist of several **takes**. A take is the measurement with one probe on one skin area. In one take several **measurements** can be performed, e.g. 3 measurements on adjacent skin areas.

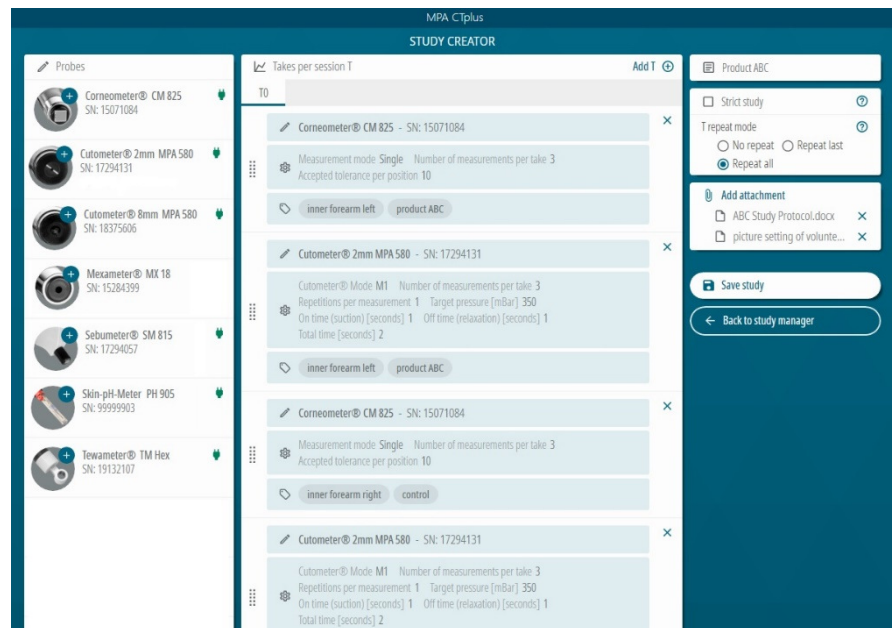


Thus all measurements for a subject in T can be performed quickly and easily.



Study Manager

- **Create a study** beforehand: designed to make life easy and **save time during work** as only a minimum of clicks is needed.
- **Select probe(s)** for one session (subject/T) & configure their use
- Select **number of measurements per probe/site**, e.g. 3



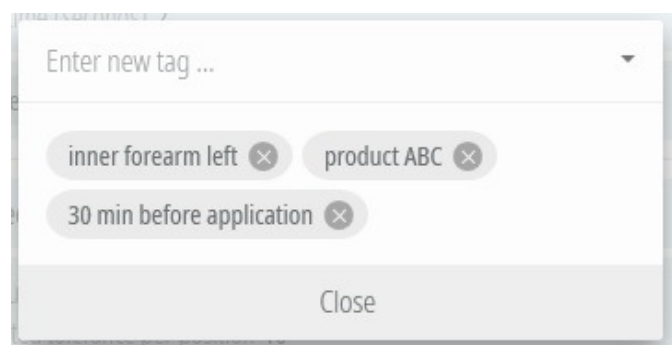
Corneometer® measurements at adjacent sites. Then, after the 3 measurements are performed, **automatically the next measurement window** (here Cutometer®) will open.

- Tag the different takes: e.g. with skin area, product type, etc. When measurements are performed their **identification tags** are automatically added.
- Attach files to your study (e.g. **explanations** for the operator, **photos** about application of products or **sketches** of the measurement set-up, etc.). Those files can be opened for further information in the measurement menu.
- Add **subjects** beforehand or anytime during your work in the program. Once created, they will be available for all sessions.

Tags

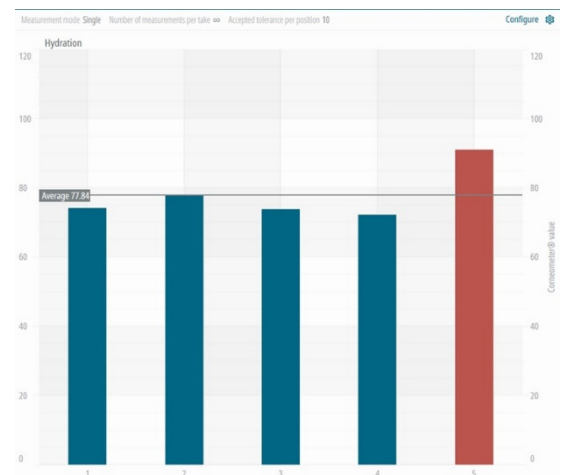
Modern, easy and quick way to **identify measurements in the database**. Examples for tags: product/control, skin site, explanation of the respective T, concentration of active ingredient, etc.

Create tags anytime during your work in the program. Once created, they are available for all measurements.



Tolerance

The software MPA CTplus offers a function (optionally) to show measurements on one skin area which are out of a certain range (with regards to the average) in a different color. Thus you can **identity possible artefacts** (e.g. probe was placed incorrectly or a hair got in the way, etc.) and delete/replace them.



Database – Filter & Export exactly to your needs

All information about the measurements (results, probe settings, operator, etc.) go into the common database.

Probe	Serial Number	Operator	Time & Date	Study	Subject	T	Tags	Take	Remark Session	Remark Take
Comesometer® CM 825	15071084	Sara	17/02/2020 11:51					1		
Tewameter® TM Hex	20050901	Sara	17/02/2020 11:51					2		
Mesameter® MX 18	15284399	Sara	17/02/2020 11:51				inner forearm right, co...	3		
Comesometer® CM 825	15071084	Sara	17/02/2020 12:17				forehead	1		
Comesometer® CM 825	15071084	Sara	17/02/2020 12:44	Product abc	uww-234	0	right cheek, 1 h after a...	1		
Comesometer® CM 825	15071084	Sara	17/02/2020 12:44	Product abc	uww-234	0	left cheek, control, 1 h...	3		
Cutometer® MPA 580	17294131	Sara	17/02/2020 12:44	Product abc	uww-234	0		5		
Cutometer® MPA 580	17294131	Sara	17/02/2020 12:44	Product abc	uww-234	0	right cheek, 1 h after a...	2		
Tewameter® TM Hex	20050901	Sara	17/02/2020 12:48	Product abc	mno-345	0		5		
Cutometer® MPA 580	17294131	Sara	17/02/2020 12:48	Product abc	mno-345	0	left cheek, control, 1 h...	4		
Cutometer® MPA 580	17294131	Sara	17/02/2020 12:48	Product abc	mno-345	0	right cheek, 1 h after a...	2		
Comesometer® CM 825	15071084	Sara	17/02/2020 12:48	Product abc	mno-345	0	right cheek, 1 h after a...	1		
Comesometer® CM 825	15071084	Sara	17/02/2020 12:48	Product abc	mno-345	0	left cheek, control, 1 h...	3		
Comesometer® CM 825	15071084	Sara	17/02/2020 13:02		4711-0815	mno-345	0	1		
Mesameter® MX 18	15284399	Sara	17/02/2020 13:03		4711-0815	mno-345	1	1		
Mesameter® MX 18	15284399	Sara	17/02/2020 13:48	Pretest product efq	def-2400	0		1		
Comesometer® CM 825	15071084	Sara	17/02/2020 14:11		def-2400		before application	1		
Mesameter® MX 18	15284399	Sara	17/02/2020 14:12		def-2400			1		
Comesometer® CM 825	15071084	Sara	17/02/2020 14:13		def-2400		after application	1		
Comesometer® CM 825	15071084	Sara	17/02/2020 14:40		def-2400		before application	1		
Cutometer® MPA 580	17294131	Sara	17/02/2020 14:40		def-2400		before application	2		
Comesometer® CM 825	15071084	Sara	17/02/2020 15:19	Product abc	123-456	0	left cheek, control, 1 h...	3		
Cutometer® MPA 580	17294131	Sara	17/02/2020 15:19	Product abc	123-456	0	right cheek, 1 h after a...	2		
Cutometer® MPA 580	17294131	Sara	17/02/2020 15:19	Product abc	123-456	0	left cheek, control, 1 h...	4		
Comesometer® CM 825	15071084	Sara	17/02/2020 15:19	Product abc	123-456	0	right cheek, 1 h after a...	1		
Tewameter® TM Hex	20050901	Sara	17/02/2020 16:16		123-456			4		

See information of the take with mouse-over.

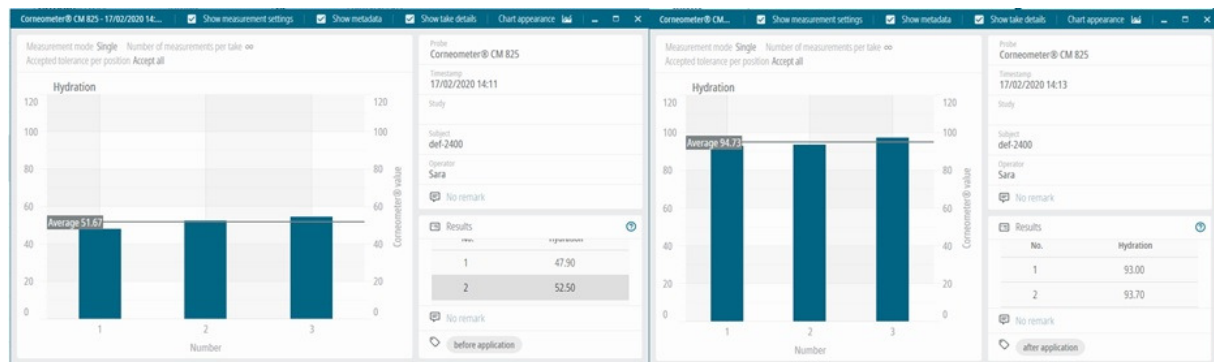
Cutometer® MPA 580
SN: 17294131

Number of measurements 2

Measurement settings

Cutometer® Mode M1 Number of measurements per take ∞
Repetitions per measurement 1 Target pressure [mBar] 450
On time (suction) [seconds] 3 Off time (relaxation) [seconds] 3
Total time [seconds] 6

Select measurements there and **view them in detail together** with their results side by side.



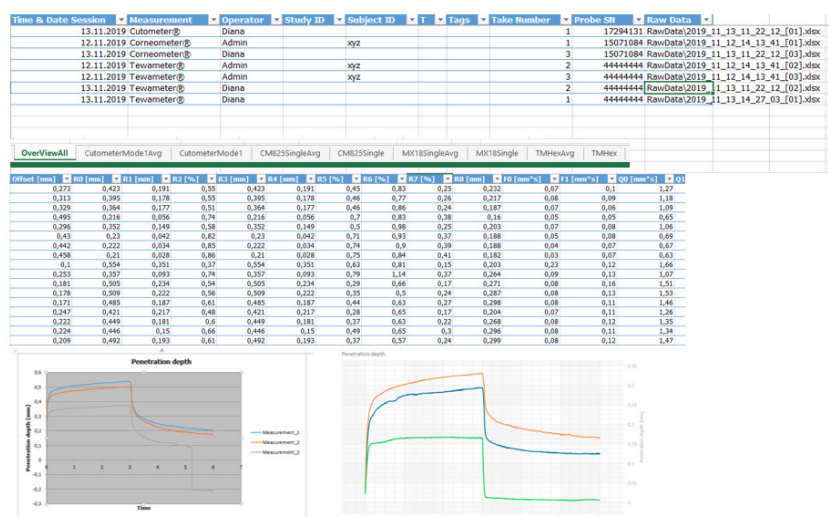
Sort and **filter the takes** to export them into an Excel® spreadsheet (e.g. by a certain study, by person(s), by probe or time period).

A **sophisticated export assistant function** allows you to only export those results that you really want to work on statistically (e.g. only averages or only certain parameters).

The first screenshot shows 'General' settings with checkboxes for 'Time & Date Session', 'Ambient Condition Sensor', 'Time & Date Take', 'Time & Date Measurement', 'Tags', 'Custom Probe Name', 'Remark session', and 'Remark take'. The second screenshot shows 'M1' settings with checkboxes for 'R0' through 'R10' and 'F0' through 'F2'. The third screenshot shows a list of parameters to export, including 'Robust TEWL', 'Number of samples for Robust TEWL', 'Spread (TEWL)', 'Uncertainty (TEWL)', 'Measurement duration', 'Heat loss by evaporation cooling (HL EC)', 'Heat loss by heat diffusion (HL HD)', 'Heat loss total (HL Total)', 'CH₂O Skin', 'CH₂O Ambience', 'Temperature Skin', 'Temperature Ambience', 'Relative Humidity Skin (RH)', 'Relative Humidity Ambience (RH)', and 'SSWL'.

The sidebar contains the following filter settings: 'Filter settings', 'Filter by study', 'Filter by subject', 'Filter by tag', 'Filter by probe', and 'Filter by time period'. At the bottom, there are buttons for 'Reset all filters' and 'Export selection'.

The created Excel®-files contain the results of all measurements and if needed also raw data of curves, charts and images of the measurements.



Information

The software is **license-based** and one license comes with every MPA/MDD system.

To work with the program, you will need a computer with the following configuration:

- Windows® 8/10
- Screen resolution: minimum 1280 x 720, recommended 1920 x 1080
- USB 2.0 / 3.0 connection(s)
- CPU: Intel i3/i5/i7 3rd generation, AMD Phenom II X4, or higher
- Optional dedicated graphics card for smoother curve visualization
- RAM: 4GB
- a programme to open Microsoft Excel® files is recommended to see exported results

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