

## The C+K Multiprobe Adapter System and its Advantages

The Multiprobe Adapter System is modular. It consists of a basic device and the probes.

- The user chooses a basic device meeting his requirements. The probes are digital containing all calibration data. Therefore they can be connected to any of them.
- The probes provide a high degree of flexibility and stability and can be easily serviced.
- The MPA system is operated with an overall C+K software.
- With a check calibration function the accuracy of the probes can be verified any time.
- Room temperature and rel. humidity from the sensor RTH 100 are saved with the measurements.
- All future C+K probes will be compatible with this system.

## Which Probes Can Be Connected?

The following probes for non-invasive measurements are currently available

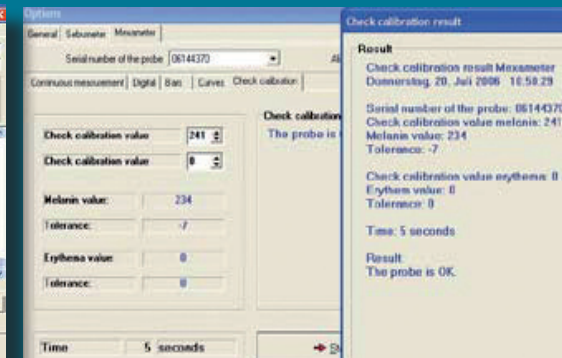
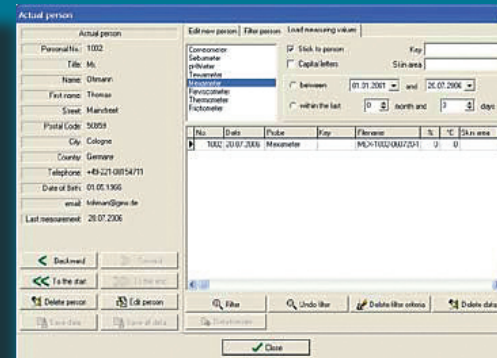
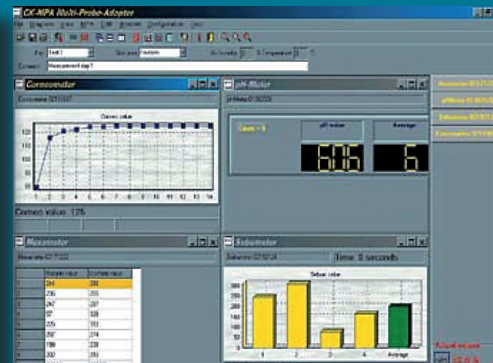
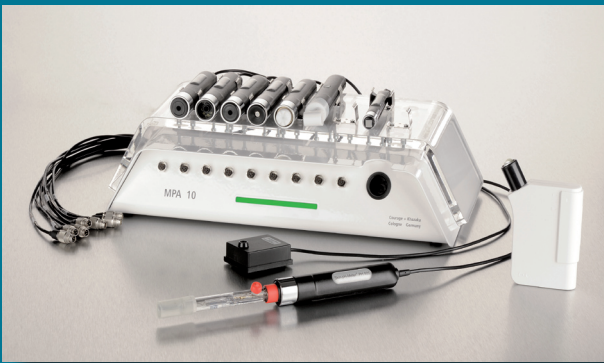
- **Corneometer® CM 825** *Moisture*
- **Sebumeter® SM 815** *Sebum*
- **Skin-pH-Meter® PH 905** *pH*
- **Mexameter® MX 18** *Melanin & Erythema-Index*
- **Skin Colorimeter CL 400** *Colour*
- **Tewameter® TM 300** *Transepidermal Waterloss (TEWL)*
- **Glossymeter GL 200** *Gloss*
- **Skin-Thermo-Meter ST 500** *Temperature*
- **Reviscometer® RVM 600** *Direction of Fibres*
- **Cutometer® MPA 580** *Viscoelasticity*
- **RTH 100** *Ambient condition sensor*

## The Software

An user-friendly software operates all probes together. Only the Cutometer® requires a software of its own.

- Measuring values can be displayed as bars, curves or numerical data
- Standard deviation and average values of the measurements are calculated
- All data are saved in one database and can easily be selected according to date, name, skin site or entry. This makes it easy to collect data from different sessions of a study.
- The data can be exported to spreadsheets (Microsoft Excel®) for further evaluation

There is also the possibility of programming an individual software for the special devices MPA 6P or MPA 10P (not running with C+K software).



### Technical Data for the Basic Devices (without Probes)

MPA6: Dimensions: 27x14.5x7.6 cm Weight: 1.6 g Interface: USB Power supply: ext.100-240 VAC, 47-63 Hz, DC 12V/4A  
 MPA10: Dimensions: 39x22.5x7.6cm Weight: 3.1 kg Interface: USB Power supply: ext.100-240 VAC, 47-63 Hz, DC 12V/4A  
 dualMPA 580: Dim.: 39x22.5x7.6cm Weight: 3.9 kg Interface: USB Power supply: ext.100-240 VAC, 47-63 Hz, DC 12V/4A  
 Computer: Windows® Vista , 7 or 8, performance must meet system requirements, USB 2.0  
 Technical changes may be made without prior notice.

Courage+Khazaka electronic GmbH since 1986  
 Mathias-Brüggen-Str. 91 · 50829 Köln · GERMANY  
 phone +49 (0)221. 9 56 49 90 · fax +49 (0)221. 9 56 49 91  
 info@courage-khazaka.de · www.courage-khazaka.de



### Which Basic Devices are Available?

#### Multiprobe Adapter MPA 6

- connection of five probes (same or different)
- inbuilt Sebumeter tube
- operation with C+K MPA software

#### Multiprobe Adapter MPA 10

- connection of nine probes (same or different)
- inbuilt Sebumeter tube
- operation with C+K MPA software

#### Cutometer® dual MPA 580

- connection of two Cutometer® probes (with different opening diameters)
- connection of four additional C+K standard probes
- inbuilt Sebumeter® tube
- operation with C+K MPA software (standard probes) and C+K Cutometer® dual MPA 580 software.

#### Multiprobe Adapter MPA 2

- small, USB powered
- connection of up to two probes
- operation with C+K MPA software

#### Multi Display Device MDD 4

- stand-alone device with one probe & ambient condition sensor
- possibility of connecting two additional probes
- large graphic colour display for showing results
- functions are operated on the display by the turning knob
- optional possibility of operation with MPA software

### Fields of application

- R&D departments of the cosmetic, raw material, personal care companies, for development of household products (e.g. detergents) and the pharmaceutical industry
- Testing laboratories for efficacy testing and claim support
- All kinds of studies in dermatology as well as field tests
- Research of different materials (e.g. food, tissues)



#### Technical Data for the Basic Devices (without Probes)

MDD 4: Dimensions: 14x27.7x9 cm Display: 9.6 x 5.7 cm Weight: 1.4 kg Interface: USB  
Power supply: external 100-240 VAC, 47-63 Hz, DC 12V/4A

MPA 2: Dimensions: 7 x 7.5 x 6 cm Weight: 260 g Interface & Power supply: USB

Computer: Windows® Vista, 7 or 8, performance must meet system requirements, USB 2.0  
Technical changes may be made without prior notice.

Courage+Khazaka electronic GmbH since 1986  
Mathias-Brüggen-Str. 91 · 50829 Köln · GERMANY  
phone +49 (0)221. 9 56 49 90 · fax +49 (0)221. 9 56 49 91  
info@courage-khazaka.de · www.courage-khazaka.de

CK  
electronic