

What Does It Measure?

The Corneometer® CM 825 is the most used instrument worldwide to obtain exact and reproducible values of the hydration level of the skin surface, mainly the stratum corneum.

The Measuring Principle

The measurement is based on capacitance measurement of a dielectric medium. The Corneometer® CM 825 measures the change in the dielectric constant due to skin surface hydration by capacitance differences of a precision capacitor.

Fields of Application

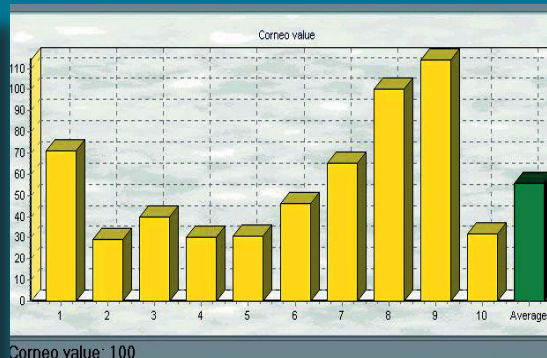
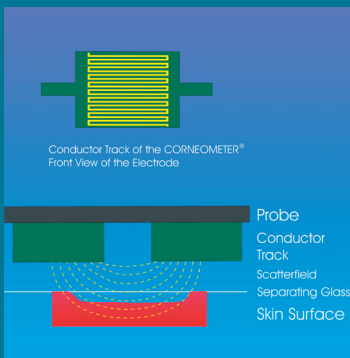
The hydration measurement is the basic measurement for all applications in basic research and cosmetics.

- Ideal instrument for formulation, claim support and efficacy testing of moisturizers.
- It is used for objective clinical trials and their monitoring.
- It gives information on the course of cosmetic treatments.
- Demonstration for occupational health to alert people to specific skin hazards and convince them of skin protection measures.

Advantages

- Substances on the skin (e.g. salts or residues of topical applied products) have only minimal influence due to capacitance measurement.

- The modern, high quality electronics of the probe allow a very quick measurement (1 s). This is important to avoid occlusion effects.
- The measurement depth is very small (10-20 µm of the Stratum corneum) to exclude the influence of water in deeper skin layers.
- The probe is small and lightweight for easy handling and measurement on all body sites.
- The spring in the probe head ensures constant pressure on the skin, enabling exact, reproducible measurements which do not influence the skin.
- Easy cleaning of the probe sensor.
- Worldwide established as „corneometry“ with a broad range of studies.
- Even used for space missions on the ISS.*
- Available for C+K MPA-systems, as stand-alone device and wireless probe.



Technical Data

Dimensions: 11 cm, Measuring surface: 49 mm², Weight: 41 g; Units: arbitrary Corneometer® units 0-120, Measurement principle: capacitance, Measurement frequency: 0.9-1.2 MHz, Measurement uncertainty: ± 3%
Technical changes may be made without prior notice.

* Study by DermaTronnieer, instruments verified for space by Kayser-Threde GmbH on behalf of the DLR space travel management.

Courage+Khazaka electronic GmbH since 1986
Mathias-Brüggen-Str. 91 · 50829 Köln · GERMANY
phone +49 221 95 64 99 0 · fax +49 221 95 64 99 1
info@courage-khazaka.de · www.courage-khazaka.de

