

What Does It Measure?

The Corneometer® CM 825 is the most used instrument worldwide to determine 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 changing the capacitance of a precision capacitor.

Fields of Application

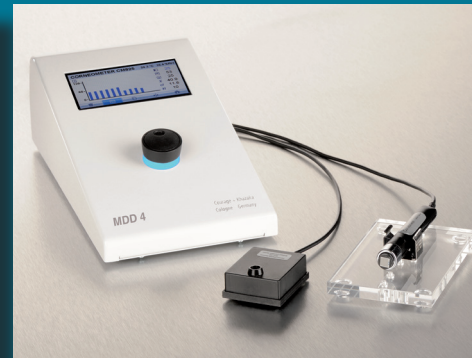
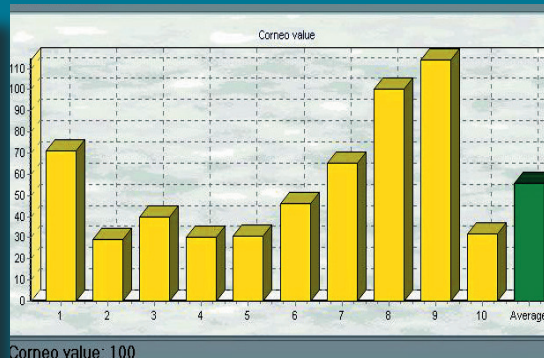
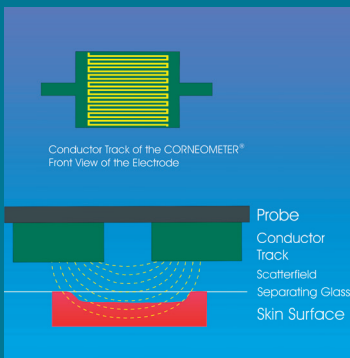
The hydration measurement is the basic measurement for all applications in basic research and cosmetics.

- 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.
- Demonstrative to alert people to specific occupational skin hazards.

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).
- The measurement depth is very small (10-20 µm of the Stratum corneum) to avoid 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.
- Worldwide established as „corneometry“ with a broad range of studies.
- Even used for the SKIN-B project on the ISS in space.*
- Available for C+K MPA-System, 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 DermaTronnier, instruments verified for space by Kayser-Threde GmbH on behalf of the DLR space travel management.

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