

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

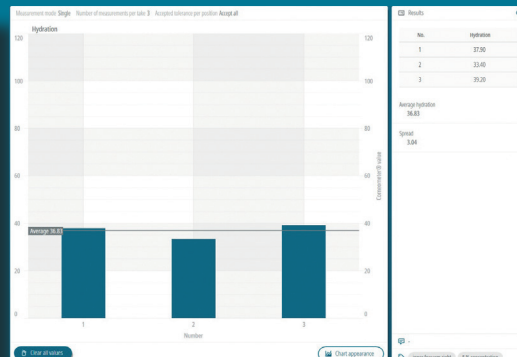
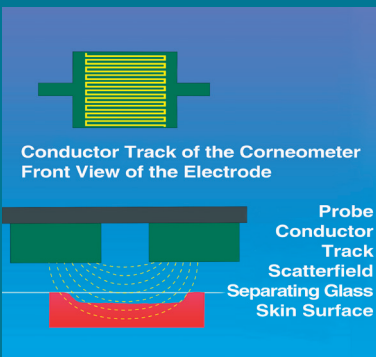
The hydration measurement is the **basic measurement** for all applications in **basic research and cosmetics**.

- 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 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 (MDD) and wireless probe (operation with MPA WLplus software).



Technical Data (for probe with cable)

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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