

What Does It Measure?

The Mexameter® MX 18 is a quick, easy and **eco-nomical** tool to measure the two components mainly responsible for the colour of skin: **melanin and haemoglobin (erythema)**.

The Measuring Principle

The measurement is based on **absorption/reflection**.

The Mexameter® MX 18 probe emits 3 specific light wavelengths. A receiver measures the reflection from the skin. As the quantity of emitted light is defined, the quantity of light absorbed by the skin can be calculated.

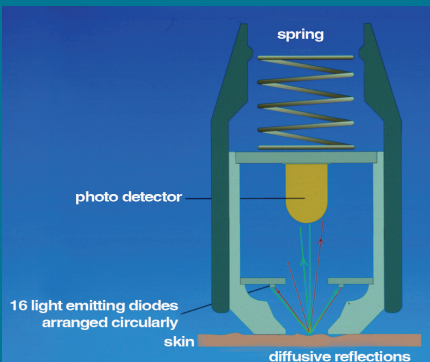
Fields of Application

There are countless fields of application where changes in the skin colour are of interest.

- Many international scientific studies demonstrate its benefits in important skin related and **cosmetological application** fields.
- It is indispensable in **efficacy testing and claim support** for cosmetics and other products (especially sunscreen, skin whitening and skin soothing products).
- In **occupational health** the skin irritation (erythema) is of special interest to educate the necessity of protection schemes.
- Other products, e.g. **foodstuffs** can also be tested.

Advantages

- The high quality electronics of the probe allow a **very quick** measurement.
- It is very sensitive to the **slightest changes** in skin colour.
- A spring in the measuring head provides a very low **constant pressure** on the skin.
- The **convenient handling** of the probe permits measurements at all body sites.
- Available for **C+K MPA-systems**, as stand-alone device (MDD) and wireless probe (operation with RR 200 & MPA Wireless software).



Technical Data (for probe with cable)

Dimensions: 13 cm x Ø 2.4 cm; Measuring surface: Ø 5 mm ≈ 19.6 mm²; Probe cable: 1.3 m ; Weight: 85 g incl. cable

Measurement principle: reflection

Nominal wavelengths (peaks): green: 568 nm, red: 660 nm, infrared: 880 nm

Units: arbitrary Mexameter® units (0-999), Measurement uncertainty: ± 5%

Technical changes may be made without prior notice.

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