

### 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.

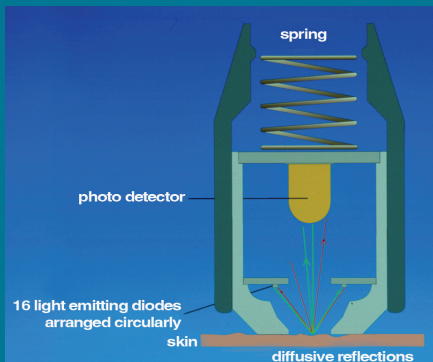
### Fields of Application

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 MPA Wireless software).



### Technical Data (for probe with cable)

Dimensions: 13 cm x Ø 2.4 cm; Measuring surface: Ø 5 mm ≈ 19.6 mm<sup>2</sup>; 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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