

Introduction

The measurement of the TransEpidermal WaterLoss is the most important measurement to assess the skin barrier function. The required measuring time is longer in relation to the measurement of other skin parameters due to the fact that the water quantity to be measured is extremely small. The Tewameter® triple TM 330T is a very suitable device to reduce the measuring time as it supplies three measurements at the same time. It is also ideal for simultaneous measurement on three skin sites.

The Measuring Principle

The Tewameter® triple TM 330T probe follows the same principle as the worldwide acknowledged Tewameter® TM 300. It measures the density gradient of the water evaporation from the skin indirectly by the two pairs of sensors (temperature and relative humidity) inside the

hollow cylinder. This is an open chamber measurement. A microprocessor analyses the values.

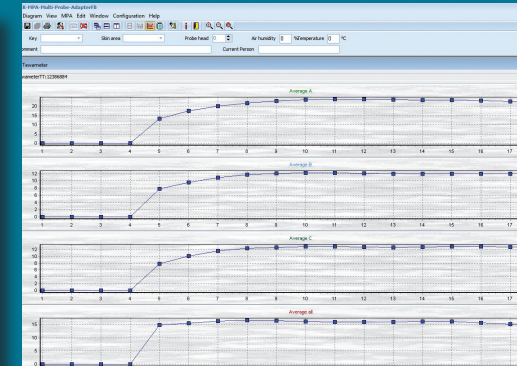
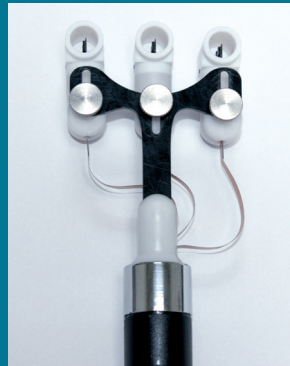
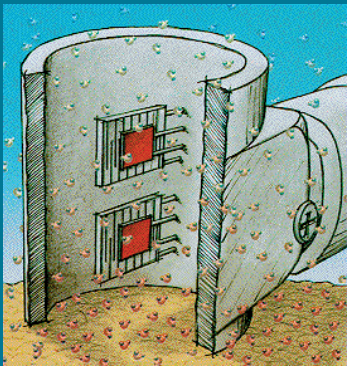
Fields of Application

- Transepidermal waterloss is a basic measurement for all medical and cosmetic applications.
- Ideal for multicentric investigations and sweat studies.

Advantages

- The open chamber measurement is the only method to assess the TEWL continuously, which is necessary for most applications without influencing the skin surface. Numerous studies available.
- Possibility of measurement of one large area with higher precision and reproducibility.

- Possibility of measurement at three areas with different products at the same time
- Software shows the values of all three probe heads at the same time. The values can be viewed as single values or as average.
- The probe heads can easily be adjusted with high flexibility.
- For the measurement all three or single probe heads can be selected.
- New sensor technology for precise and very stable measurements.
- Check calibration can be done by a small chamber.
- Very time saving as three values can be taken under the exact ambient conditions at the same time.
- Available for C+K MPA-System.



Technical Data

Dim.: 3 measuring chambers: 2 cm, \varnothing 1 cm, Probe: length 24 cm, minimum width 6.4 cm, Weight: 120 g, Cable length 1.3 m, Resolution: Humidity: ± 0.01 % RH, Temp.: ± 0.01 °C, TEWL: 0.1 g/h/m²

Accuracy: rel. humidity (RH): ± 1.8 %, Temperature: ± 0.2 °C

Waterloss: 10% - 80% RH: ± 0.25 g/h/m² for TEWL values ≤ 5 g/h/m² and 5% for values > 5 g/h/m²

0-10 % and > 80 % RH: ± 1 g/h/m² for TEWL values ≤ 5 g/h/m² and 10% for values > 5 g/h/m²

Technical changes may be made without prior notice.

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