

VAPOMETER

PRACTICAL AND RELIABLE TEWL,
EVAPORATION AND PERMEABILITY
MEASUREMENTS

PRODUCT BENEFITS

- † Immediately ready to use – no daily calibration procedure required
- † Practical and reliable TEWL and evaporation measurements
- † Wide measurement range – accurate up to 200 g/m²h
- † Fully portable and battery operated – no cables
- † Does not change skin's natural behavior – no artificially created climate change
- † Non-sensitive to ambient airflows
- † Wireless connection to PC
- † Use in all angles
- † Short measuring time, typically 10 seconds



APPLICATION AREAS

- † TEWL, Skin barrier function, Penetration studies
- † Effect of skin care, treatment and nutrition
- † Wound healing
- † Sympathetic skin response, Hyperhidrosis
- † Skin irritation
- † Water loss through nails, scalp, lips
- † Skin surface water loss
- † Efficacy and safety testing, Claims validation
- † Material permeability, *in-vitro* studies
- † Animal health and Zoology

VAPOMETER INSTRUMENTATION

The VapoMeter measures the evaporation rate of water and displays the measurement result ($\text{g}/\text{m}^2\text{h}$), the ambient relative humidity (%) and the ambient temperature ($^{\circ}\text{C}$). It may be used either as a stand alone device or measurement data may be collected wirelessly to the DelfWin software.

The DelfWin software allows users to set up individual projects and plot and print the results or export them to other programs for editing.

The VapoMeter is battery-operated and portable. This offers great freedom of movement and the possibility of measuring difficult areas. Changeable and re-usable adapters are available for different *in-vivo* and *in-vitro* user applications.

CLOSED CHAMBER PRINCIPLE – NO DAILY CALIBRATIONS

The core of the VapoMeter is a sensitive humidity sensor that is inside a cylindrical measurement chamber. This chamber is closed by the measurement surface during the measurement period and is unaffected by ambient airflows. The sensor monitors the increase of relative humidity (RH) inside the chamber during the measurement. The evaporation rate value ($\text{g}/\text{m}^2\text{h}$) is automatically calculated from the RH increase. The chamber is passively ventilated between measurements and the ventilation time is automatically controlled.

ADAPTERS FOR DIFFERENT APPLICATIONS



DELFIN INSTRUMENTS ARE USED
WORLDWIDE IN 40 COUNTRIES
ON 6 CONTINENTS

Manufactured and Marketed by



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