

# MOISTUREMETERSC

## SENSITIVE SKIN SURFACE HYDRATION MEASUREMENTS

### PRODUCT BENEFITS

- ♦ Sensitive, accurate and reliable skin surface hydration measurements
- ♦ Fully portable and battery operated
- ♦ Wireless connection to PC
- ♦ Extremely practical to use
- ♦ Fast and convenient measurements
- ♦ Non-sensitive to electrolytes
- ♦ Built-in pressure sensor for user independent measurements



### APPLICATION AREAS

- ♦ Product and formulation research and development in pharmaceutical, personal care and chemical industries
- ♦ Claims validation work
- ♦ Efficacy testing
- ♦ Skin research studies
- ♦ Assessment of skin types
- ♦ Evaluation of skin care and treatments
- ♦ Occupational health related skin monitoring
- ♦ Marketing and promotion of skin care products

## SKIN HYDRATION

The measurement of skin hydration at stratum corneum level is one of the most measured properties of skin. Since the thickness of the stratum corneum varies by body area as does also the thickness of the stratum corneum's dry layer, it is important to take these into account and not use a constant measurement depth. The patented technology of the MoistureMeterSC addresses these issues and ensures sensitive, reliable and user-friendly measurements.

## MOISTUREMETERSC INSTRUMENTATION

The MoistureMeterSC is an all-in-one unit that comprises a sensitive round probe head, a built-in contact pressure sensor and a graphic display screen. Measurement values as well as the used contact pressure are displayed on the screen. The MoistureMeterSC 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, store and view measurement data and plot the results or export them to other programs for editing.

## MEASUREMENT PRINCIPLE

The measurement principle of the MoistureMeterSC is based on the layered capacitive structure of the skin. The capacitor plates are formed from the probe and the highly conductive epidermal layer while the dry layer of the stratum corneum acts as an insulator. The measurement depth of the MoistureMeterSC varies and is

determined by the thickness of the stratum corneum's dry layer.

MoistureMeterSC measurement values are arbitrary units and a combination of the dielectric constant and the changing thickness of the stratum corneum's dry layer. This technique makes skin hydration measurements extremely sensitive and reproducible.

DELFIN INSTRUMENTS ARE USED  
WORLDWIDE IN 40 COUNTRIES  
ON 6 CONTINENTS



*Manufactured and Marketed by*



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