

# MOISTUREMETERD COMPACT

## LOCAL MEASUREMENTS OF TISSUE WATER

### PRODUCT BENEFITS

- ♦ Highly sensitive measurement of water content and edema in skin
- ♦ Local measurements on virtually all areas of the body
- ♦ Sensitive, accurate and reliable measurements
- ♦ Fully portable with rechargeable battery
- ♦ Wireless connection to PC
- ♦ Extremely practical to use
- ♦ Totally non-invasive
- ♦ Fast and convenient measurements
- ♦ Built-in pressure sensor for user independent measurements



### APPLICATION AREAS

- ♦ Lymphedema – related to cancer, surgery, drugs and trauma
- ♦ Edema – cutaneous edema, venous edema, postoperative edema, tissue water status
- ♦ Wound healing, burns and thermal injury
- ♦ Radiotherapy – acute and late radiation reactions
- ♦ Irritant and allergic skin reactions
- ♦ Pharmaceutical research and product development – effects of topical drugs in skin, transdermal delivery
- ♦ Personal care research and product development
- ♦ Skin research studies
- ♦ Treatment effects

## MOISTUREMETERD COMPACT INSTRUMENTATION

The MoistureMeterD Compact is an all-in-one measurement unit that is composed of an integrated probe, a built-in contact pressure sensor and a display. The OLED display shows measured values in percentage of local tissue water (0 to 100%) down to an effective depth of 2.5 mm. The MoistureMeterD Compact may be used either as a stand-alone device or measurement data may be collected wirelessly to the DMC software.

The DMC 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 MoistureMeterD Compact generates a high frequency, low power electromagnetic (EM) wave which the tissue is exposed to. The reflected EM wave is registered and the obtained value is a dielectric constant, which is proportional to the water content of the measured tissue. This TDC (tissue dielectric constant) value is converted to water percentage and displayed. The value increases with increasing water content and edema.

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