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NOVA

DPM 9000 Series

Skin Hydration Instrumentation and Software

9003 Instrument & Sensor Probes

NOVA

DPM 9003

Dermatological Laboratory Instrument

The DPM 9003 device is a battery operated, portable handheld instrument capable of measuring the impedance of skin and the relative changes in impedance. It consists of two standard elements (the main unit and the interchangeable probe) and optional software used for collecting data over time and graphing. The interchangeable probes come in various sizes, contact surface areas, and materials to facilitate cleaning and reuse in non-sterile environments or disposal in sterile environments. Researchers interested in tracking impedance changes over time have used the device in conjunction with a computer in order to collect and store the data generated.

FEATURES

- Self-calibration mode- calibrates the instrument immediately at start-up
- Remote sensor port- enables quick change of sensor probes at any time during tests
- Automatic sensor switch- activates the system directly when sensor touches the skin
- Computer compatibility- the DPM 9003 can download its data into a personal computer for further analysis

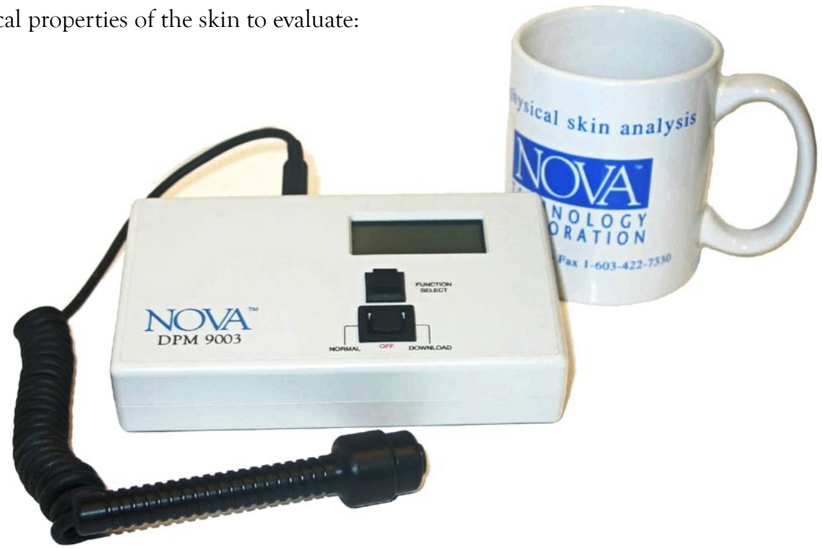
SENSOR PROBES

NOVA provides a variety of sensor probe sizes and shapes for your specific testing needs. Standard probe sizes range from two to eight millimeters. NOVA also offers disposable sensors designed to help prevent cross-contamination or infection between subjects. The customized “ruler” probes enable you to take readings with clothing and/or other skin coverings in place on any part of the body. Custom probes made to suit your specifications are available upon request.

APPLICATIONS

Ideal for measuring biophysical properties of the skin to evaluate:

- Cosmetics
- Pharmaceuticals
- Medical Research
- Personal care products
- Raw materials
- Non-wovens



Sensor Probes

Articulated Probes

Ideal for applications in both mucosal and non-mucosal testing, the new Articulated Probes make testing small, inaccessible skin surfaces easier than ever. Probe tips are disposable or can be sterilized to prevent the spread of bacteria when conducting readings on multiple sites or subjects. The probes are designed for use with the DPM 9003 instrument. Probe tips come in six different interchangeable angles: 15, 30, 45, 60, 75, and 90 degrees.

DPM 9103 Standard Sensor Probe

Outer Ring Diameter: 8.76mm, Inner Ring Diameter: 4.34mm, Length: 113.41mm. The DPM 9103 sensor probe is included with every DPM package. It is used for general hydration purposes on larger surface areas such as the volar surface of the arm, face, back, etc.

DPM 9107 Sensor Probe

Outer Ring Diameter: 3.81mm, Inner Ring Diameter: 1.52mm, Length: 130.18mm

This probe is approximately 4mm and may be used for research studies, scalp testing, and small animal testing where a smaller diameter probe is preferred. The DPM 9107 is sold separately, but can be included in packages, as an add-on, upon request.

DPM 9111 Individual Use/Disposable Sensor Probes

The tips of the Individual-Use Sensor Probes are interchangeable and easily replaced for multi-site and/or multi-subject clinical or medical studies. Assigning a tip to each site and/or subject prevents the spreading of bacteria or disease. The tips can be sterilized with ethylene oxide or hydrogen peroxide, or may be discarded after a test is finished. Probe Tips are available in any size and can be used with the same handle. The product is available by special order. Standard diameters are 6mm and 8mm; special sizes are available upon request.

Custom Probes

The DPM 9123X probe (see below) is used for clinical studies related to casts, diapers, and bandages. Researchers investigating antiperspirants, adhesives, hair systems, and decubitus ulcers have also requested custom probes such as the DPM 9123X Sensor Probe for data collection. Custom probes are available by special order.