

Textile Moisture Meter



Description

Portable digital instrument for instantaneous reading of the residual moisture percentage (%) contained in textiles. In the Humy Tester III, 20 preset scales - previously stored - are available for the direct reading of most common textile materials, such as: 100% wool, 100% cotton, 100% rayon, viscose, 100% linen, 100% paper, 100% nylon, 100% acrylic, 100% polyester, 50% +50% viscose wool-rayon, 60% + 40% ... , etc.

Thanks to a special probe (available as optional), the Humy Tester III can also measure ambient temperature and relative humidity.



Multi function moisture meter to determine the residual moisture of yarn bobbins, fabric rolls, cotton bales, fiber flocks etc., optional to measure room temperature and humidity RH %

The operating principle to determine the moisture content in the material to be tested is based on the measurement of the material's electrical conductivity, which is always proportional to the moisture content.

20 pre-set direct reading scales of the most common textile raw materials - both pure and blended - are already stored and available in the Humy Tester III.

In order to test other fibers and blends that are not pre-set, an additional comparison scale with range "0-100" is available in the instrument.

Measuring principle:

The moisture content is determined by measuring the electrical conductivity of the material, which always is proportional to the content of the moisture.

Standard features

- » Textile moisture meter DHT-3 with compact housing supplied in leather carrying case with neck strap
- » Portable, battery-operated moisture meter
- » Test report of manufacturer free of charge, calibration report optional available

Special features

- » Easy to use textile moisture meter DHT-3 for many applications and quick measurements
- » Digital display for direct moisture percentage reading of 10 materials (wool, rayon, cotton, hemp, jute, paper, linen, nylon, acrylic, polyester) and 10 often used material mixtures.
- » Scale with 0 – 100 for non stored materials; with the help of supplies comparison tables the moisture of additional 20 materials can be determined
- » A wide choice of needles and roller electrodes for many applications are available
- » Easy material selection using 2 push buttons
- » Optional the room temperature °C and humidity RH % can be displayed using a special probe
- » Textile moisture meter DHT-3 is microprocessor controlled.
- » Easy material selection using 2 push buttons
- » Room temperature °C and humidity RH % can be displayed using a special probe (optional accessory)
- » High accuracy and reproducibility

Specifications

- » Residual moisture
 - » Direct reading
wool, rayon, cotton, hemp, jute, paper, linen, nylon, acrylic, polyester, 50 PES/50 Zw, 50 PES/50 PAC, 50 PES/50 Bw, 67 PES/33 Bw, 70 PES/30 Zw, 70 PES/30 Wo, 67 PAC/33 Bw, 70 PAC/30 Wo, 60 Bw/40 PES, 50 Wo/50 Zw
 - » Indirect reading
0 – 100 scale and 20 conversion sheets for different materials
 - » -30 to 70 °C (optional)
 - » 5 to 95 % RH (optional)
- » Display: LCD, resolution 0.1
- » Accuracy: ± 1 % full scale
- » Reproducibility: $\pm 0,3$ %
- » Power supply: Battery 9 V E Block, low battery signal
- » Auto Power off: After 2 min of non-use
- » Weight net (gross): Approx. 258 g (1650 g)
- » Dimensions: 200 x 95 x 40 mm (LxWxH)



Delivery includes

Instrument with carrying case and battery, 1 connecting cable no. 50400M, electrode holder no. 50404M, Electrodes no. 50414M and no. 50418M, Manufacturers Test Report, 1 operating instruction with comparison tables in english

Accessories

Standard accessories

- » Measuring Cable: length 1 m
- » Electrode Holder fo take up various electrodes, weight 100 g
- » Needle Electrode for measuring yarns, crosswound bobbins and hanks, 2 needles, needle length 100 mm, weight 40 g
- » Needle Electrode for measuring yarns, crosswound bobbins and hanks, 8 needles, needle length 80mm, weight 60 g

More electrodes

- » Thermo-Hygrometric Probe to measure room temperature °C and RH %. Useful parameters to check the balance condition of the material under testing. Length 170 mm, weight 60 g
- » Needle Electrode for measuring textiles in sacks and rolls, especially yarn and fabrics, needle length 325 mm, insulated shank 35 mm, weight 150 g
- » Roller Electrode for measuring running webs of fabrics, 27 mm roller diameter, weight 120 g
- » Surface Electrode for measuring fabrics, surface diameter 30 mm, weight 56 g
- » Calibration Electrode: Set of 2 different calibration electrodes with fixed moisture values. Needed for varification and readjusting of the instrument.