TXL-KMS-039 / 28 October 2026 · One-year manufacturer warranty

3D-MMD Fabric Liquid Moisture Transmission Measurement Device

Tracks liquid spreading on both fabric faces and drying behaviour through two-sided IR contrast imaging. Analyses changes in wet and dry regions over time; the method does not rely on temperature measurement.



Model technical data

1	Method: non-contact IR contrast imaging.
2	Simultaneous IR imaging of the upper and lower fabric faces.
3	Adjustable specimen angle.
4	Time-dependent wetting, spreading and drying analysis in software.
5	Touchscreen control panel.
6	Overall dimensions (W × D × H): 640 × 655 × 575 mm.
7	Instrument weight: 16 kg.

Physical specifications and utilities

Electrical supply	Approx. 220–240 V AC, 50/60 Hz, single phase; build-dependent.
Power / connected load	Approx. 100–300 W connected load for preliminary planning.
Overall instrument dimensions	Overall dimensions (W × D × H): 640 × 655 × 575 mm.
Instrument weight	Instrument weight: 16 kg.
Gross / shipping weight	Approx. 27.6–30 kg gross; estimated packing allowance.
Lab requirements	Method-specified test water, liquid waste collection and stable ambient conditions.

Dimension order and approximate values are stated in each row. Packaging data are separate from instrument dimensions and net mass. Approx. rows are preliminary engineering estimates based on comparable equipment and function/capacity; they are not verified manufacturing measurements or standard requirements. Installation and shipment are finalised against the approved drawing and nameplate. Estimate scope: base product / one unit; external computer, bench and auxiliary plant excluded.

Specifications, dimensions, and power requirements are approximate and subject to change without prior notice for continuous design improvements.

Product technical specifications and images may vary according to manufacturing conditions and applicable standards.

Test and configuration

Measured output / function	Liquid spreading, absorption and moisture transport
Parameters selected for the method	Dosing liquid, quantity, specimen direction and measurement time
Verification points	Dosing, timing and sensor/reference check

Control and recording specification

Method-specific software and recording requirements follow. Delivered software modules are defined by the order scope.

• Method code and edition, specimen ID, operator and selected test parameters are linked to the record.

• The calculation and endpoint are defined by the selected method edition; instrument signals and operator assessments are kept distinct.

• Raw measurements, units, valid/invalid test flags and the reported result remain traceable.

• Calculations are checked against known inputs and an independent calculation; sensor channels are checked against calibration values.

Related test methods

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Listed methods are application references. Suitability is established by assessing hardware, method edition and calibration together.