

TXL-NEM-003 / 27 October 2026 · One-year manufacturer warranty

Temperature & Humidity Datalogger

Ambient temperature and humidity recorder. USB output. Instantly and accurately detects moisture and temperature controls, which are critically important for sensitive production environments. Offers portable and practical use.



Model technical data

1	Accuracy: $\pm 2\%$ RH / $\pm 0,5^{\circ}\text{C}$.
2	Operating Temperature: $-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$.
3	Memory: Micro SD Card Input + USB Memory Support.
4	USB : 4x2.0+ Micro USB 5V/2,5A Power Input.

Physical specifications and utilities

Electrical supply	Approx. battery / rechargeable battery; voltage and charger depend on build.
Power / connected load	Approx. 1–3 W connected load for preliminary planning.
Overall instrument dimensions	Approx. 120 × 50 × 180 mm (W × D × H).
Instrument weight	Approx. 0.15–0.4 kg net.
Gross / shipping weight	Approx. 0.6–0.9 kg gross; estimated packing allowance.
Interfaces	Memory: Micro SD Card Input + USB Memory Support. USB : 4x2.0+ Micro USB 5V/2,5A Power Input.
Lab requirements	Level, stable working surface; specimen conditioning follows the selected method.

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	Ambient temperature and relative humidity (%RH)
Parameters selected for the method	Placement, measurement interval and measuring method
Verification points	Temperature and relative humidity references

Control and recording specification

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

- The need for integrated software depends on the method and selected hardware; manual instruments use an external test record.
- 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

ISO 139

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

Test parameters for the reviewed method

The values below were reviewed in selected clauses of the stated source edition. They are not a declaration of equivalence to a later edition or independent instrument verification.

ISO 139:2005 + Amd 1:2011 / 3-5, Annex A

1	Standard atmosphere 20 °C / 65% RH; agreed alternatives 23 °C / 50% RH or 27 °C / 65% RH, tolerances ±2 °C and ±4% RH. Recommended monitor resolution 0.1 °C and 0.1% RH or better; measurement uncertainty ±0.5 °C and ±2% RH or better. Assess monitoring sensors separately from control sensors.
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