

Product-Level Accuracy Where It Matters Most

A probe-enabled temperature logger built for precise, compliant monitoring across manufacturing and temperature-controlled supply workflows.

The R-TEL 309 Temperature Logger with Probe delivers product-level accuracy for the most demanding points in temperature-controlled cold-chains—down to -50°C. Its external sensor captures true core or internal temperatures within controlled storage units, insulated shippers, bulk containers, and production environments where ambient readings fall short.

Built for regulated workflows, the 309 supports manufacturing facilities, producers, distributors, and supply networks requiring precise temperature control.

Reset and redeploy after each cycle for seamless use in linear or closed-loop operations, with secure PDF/CSV reporting that supports audit readiness from manufacturing through final-mile delivery.





Three-Series 309

Multi-Use USB Temperature Data Logger with External Probe



Rugged Design

Durable IP65-rated protective case



Simple to Use

Confident activation
Large, tactile start/stop
USB / Plug n' Play



3-Point NIST

Traceable calibration
ensures $\pm 0.5^{\circ}\text{C}$
accuracy



User Programmable

Customize alarm &
start delay settings



Wide Temp Range

-50°C — 70°C
(-22°F — 158°F)



High Capacity

Up to 33,000 time-
stamped data points



RTEL 309

Multi-Use USB Temperature Logger with External Probe

- ✓ Check Min, Max, Avg Temp during monitoring period
- ✓ Low Temperature to -50°C
- ✓ 6 User Programmable Temperature Alarms

Notification Type	LCD Display - Recording, OK/Alarm, Start Delay, Avg/Max/Min Temperatures
Battery Life	up to 2 years (1yr storage / 1yr in-use life) @ 25°C & 5 min logging interval
Measurement Range	-50°C ~ 70°C
Measurement Accuracy	$\pm 0.5^{\circ}\text{C}$ @ -10 ~ 40°C , $\pm 0.8^{\circ}\text{C}$ @ -30 ~ -10°C & 40 ~ 70°C
Resolution	0.1°C
Alarm Limits	3 High / 3 Low Programmable
Logging Interval	1 minute - 24 hours (Default 10 minutes)
Storage Capacity	up to 33,000 data points for single PDF or CSV report / <25,000 for combined report
Report Format	PDF / CSV / Combined PDF&CSV (Optional Configuration)
Start Delay	0 minutes - 24 hours (Default 15 minutes)
Start Mode	Manual/Auto Start
IP Rating	IP65
Battery Type	3.0V CR2450
Connection	USB2.0
Dimensions	109.5x40x13.5mm
Weight	41.4g
Product Certifications	CE, EN12830:2018, RoHS



FDA Compliant

Meets 21 CFR Part 11
compliance standard