LOW TEMPERATURE AT A DISTANCE



LogTag®

TREL-8 Multi-Use Low Temperature with External Probe



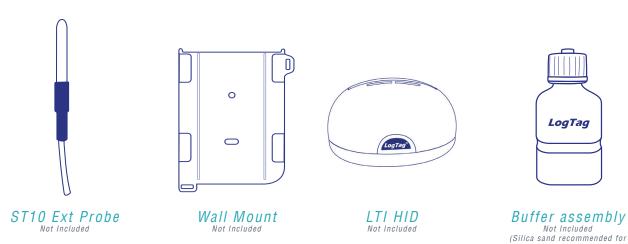
The TREL-8 Low Temperature Remote Probe Logger measures and stores up to 8000 temperature readings over -90°C to +40°C (-130°F to +104°F) measurement range from associated interchangeable LogTag[®] ST10 type remote probe temperature sensor (available in lengths up to 3 meters (9'10").

It is intended for use in monitoring of articles stored at low temperatures such as in dry ice type environments.

TREL-8 is easily configured for recording conditions including delayed start, sampling interval, number of readings and configuration of conditions to activate the ALERT indicator.

temperatures below -40°C)

Accessories



Features



Records temperature from +40°C to as low as -90°C



A real time clock provides date/ time stamps for each temperature reading.



Up to 8,000 recordings - enough for the longest trip.



Push-to-start button with optional delay or a specific time & date.



In-transit inspections can be recorded at the push of a button.



External Probe with high quality gold plated connector.



Comprehensive customization options including alarm settings, sample interval and trip duration.

Applications



Vaccines Transport



Blood & Organ Transport



Chemical Transport



Manufacturing Distribution



Pharmaceutical Transport

Specifications

Product Model	TREL-8
External Temperature Sensor Measurement Range	-90°C to +40°C (-130°F to +104°F).
Operating Temperature Range	-20°C to +40°C (-4°F to +104°F).
Storage Temperature Range	-10°C to +55°C (14°F to +131°F).
Rated Temperature Reading Accuracy	With the logger case sitting in an environmental temperature between 0°C and 50°C. Better than \pm 1°C (\pm 1.8°F) for -30°C to +20°C (-22°F to +68°F). Better than \pm 1.2°C (\pm 2.1°F) for -45°C to -30°C (-49°F to -22°F) and +20°C to +40°C (+68°F to +104°F). Better than \pm 1.7°C (\pm 3.1°F) for -80°C to -45°C (-112°F to -49°F). Better than \pm 2.0°C (\pm 3.6°F) for -90°C to -60°C (-130°F to -112°F). Actual performance is typically much better than the rated values. Accuracy figures can be improved by recalibration.
Rated Temperature Reading Resolution	0.1°C (0.2°F) for measurements -80°C to 0°C (-112°F to 32°F), 0.2°C (0.4°F) for measurements 0°C to 18°C (32°F to 64.4°F), and -90°C to -80°C (-130°F to -112°F) 0.3°C (0.5°F) for measurements 18°C to 30°C (64.4°F to 86°F) 0.5°C (0.9°F) for measurements 30°C to 40°C (86°F to 104°F) LogTag Analyzer [®] currently displays to one decimal place of °C or °F. The native resolution is what is stored in the LogTag [®] .
Sensor Reaction Time	Typically less than 2 minutes(T90) in moving air (1m/s) for ST10S type
Recording Capacity	8031 temperature readings. 53 days @ 10min logging, 80 days @ 15min logging.
Sampling Interval	Configurable from 30 seconds to several hours
Logging Start Options	Push button start with optional start delay or specific date & time.
Recording Indication	Flashing 'OK' indicator / flashing 'ALERT' indicator.
Download Time	Typically less than 5 seconds for full memory (8031 readings), depending on computer or readout device used.
Environmental	IP61.
Power Source	CR2450 3V LiMnO ₂ Battery (Fixed).
Battery Life	Storage life of 1 year before 'start' (if it is hibernation mode), followed by: 2 – 3 years of normal use (based on 15 minute logging, download data monthly).
Real Time Clock	Built-in real time clock. Rated accuracy ±25ppm @ 25°C (equivalent to 2.5 seconds/day). Rated temperature coefficient is -0.034 ±0.006ppm/°C (I.e typically +/- 0.00294 seconds/day/°C).
Standard Remote Probe Cable Lengths	Standard: 0.5m (19"). Extended: 3m (9'10") (recommended maximum).
Remote Probe Cable Type	PTFE (FDA food contact rated) coaxial.
Size	86mm(H) x 54.5mm(W) x 8.6mm(T).
Weight	34g.
Case Material	Polycarbonate.





