

LogTag

LOW TEMPERATURE REMOTE PROBE RECORDER

The LogTag Low Temperature Remote Probe Recorder measures and stores up to 8000 temperature readings over -80°C to +40°C (-112°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")).

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

Using the LogTag Interface and LogTag's freely available companion software LogTag Analyser, the LogTag is easily configured for recording conditions including delayed start, sampling interval, number of readings and configuration of conditions to activate the ALERT indicator.

Readings are downloaded using LogTag Analyser which provides facilities for charting, zooming, listing data statistics and allows exporting the data to other applications such as Excel.



PRODUCT CODE: TREL-8



LOW TEMPERATURE 316 STAINLESS STEEL TIPPED SENSOR
PRODUCT CODE: ST10SL-05

Product Highlights

- **Alert indicator** – indicates if readings are outside of preset limits
- **OK indicator** indicates if still recording and if readings within configured limits
- **Inspection mark** in log by push button
- **Push Button** Logging start with optional delayed start or specific **Time & Date start**
- **Rapid Download!** Takes only seconds to download recordings
- **'Pre-Start' logging** - Logtag can be configured to record even if it has not been started.
- **High performance** at low cost
- **Credit card sized case** – thin enough to be easily mailed "letter rate".
- **Real time clock** records time & temperature simultaneously
- **Easy to use** LogTag Analyser software that runs on any PC configures LogTag for recording then downloads resulting data for analysis.
Data can also be exported to formats compatible with other applications such as Excel
- **Re-calibration** to achieve higher accuracy possible
- **High quality** gold plated external sensor connector

For more information please visit our Website www.logtag-recorders.com

RELEASE SPECIFICATION : DOC REV C 01/01/09 – ©Copyright 2009, www.logtag-recorders.com
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LogTag TREL-8 Technical Specifications

Part Order Code	TREL-8
Remote Probe Temperature Sensor measurement range (ST10 type only)	-80 ~ +40°C (-112°F ~ +104°F)
Recorder operating temperature range	-30 ~ +70°C (-22°F ~ 158°F)
<p>Rated Temperature reading accuracy *</p> <p>Better than $\pm 1^\circ\text{C}$ for $-30^\circ\text{C} \sim +20^\circ\text{C}$ better than $\pm 1.2^\circ\text{C}$ for $-45^\circ\text{C} \sim -30^\circ\text{C}$ & $+20^\circ\text{C} \sim +40^\circ\text{C}$ better than $\pm 1.7^\circ\text{C}$ for $-80^\circ\text{C} \sim -45^\circ\text{C}$</p> <p style="text-align: center;">LogTag TREL Low Temperature Recorder Rated Ex-factory Temperature vs Accuracy</p> <p style="text-align: center;">— Recorder@+25C — Recorder@-20C</p>	<p>Rated Temperature reading resolution #</p> <p>Less than 0.1°C for $-80^\circ\text{C} \sim 0.0^\circ\text{C}$, less than 0.2°C for $0.0^\circ\text{C} \sim +20^\circ\text{C}$ less than 0.5°C for $+20^\circ\text{C} \sim +40^\circ\text{C}$ (see below)</p> <p style="text-align: center;">LogTag TREL Low Temperature Recorder Rated Ex-factory Temperature vs Resolution</p>
<p>* Ex-factory values with standard 1m LogTag Supplied probe and with recorder case sitting in temperature $0^\circ\text{C} \sim 50^\circ\text{C}$</p> <p>Actual performance is normally much better than the rated values. Accuracy figures can be improved by recalibration.</p>	<p># LogTag Analyser currently displays to one decimal place of $^\circ\text{C}$ or $^\circ\text{F}$. The native resolution is what is stored in the LogTag.</p>
Capacity	8000 temperature readings (16Kbytes memory)
Sampling frequency	adjustable, 30 sec to several hours
Download Time	Typically with full memory in less than 5 seconds depending on computer or readout device used.
Environmental	IP61
Power source	3V Lithium - replaceable by qualified technician
Battery life	2~3 years typical use – longer (up to 5-10 years) if recorder is hibernated between uses.
External Sensor Cable Length	Standard: 50cm (19"") (Part# ST10S-05) Extended: 3 m (9'10"") (Part# ST10S-3)
External Sensor Cable Type	PTFE/FEP (FDA food contact rated) coaxial
Size	86mm(H)x54.5mm(W)x8.6mm(T)
Weight	35grams
Case Material	Polycarbonate

NOTE:

- LogTag TREL-8 is designed to only operate with LogTag ST10 type remote temperature probes. ST10 types are identified by the green sleeve color on the sensor's plug.
- LogTag ST10 remote temperature probes are designed and calibrated for interchangeability with TREL recorders to the standard ex-factory rated accuracy above. If a TREL/ST10 remote probe combination is calibrated to a higher level of accuracy (as is possible) then care should be taken to always use the same TREL/ST10 combination for measurements as the ST10 sensor is not rated interchangeable at accuracies better than the TREL/ST10 rating in this specification.
- LogTag Recorders reserves the right to change this product's specifications without notice.