

# LogTag®

## REMOTE PROBE TEMPERATURE RECORDER



The *LogTag*® Remote Probe Temperature Recorder measures and stores up to 8000 temperature readings over -40°C to +99°C (-40°F to +210°F) measurement range.

Using the *LogTag*® Interface and the freely available companion software *LogTag Analyser*, the *LogTag*® is easily set-up for recording conditions including delayed start, sampling interval, number of readings, continuous or fixed 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 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**
- **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 remote sensor connector
- **Interchangeable Probes** – *LogTag*® remote temperature probes are interchangeable.

# LogTag® TREX-8 Technical Specifications

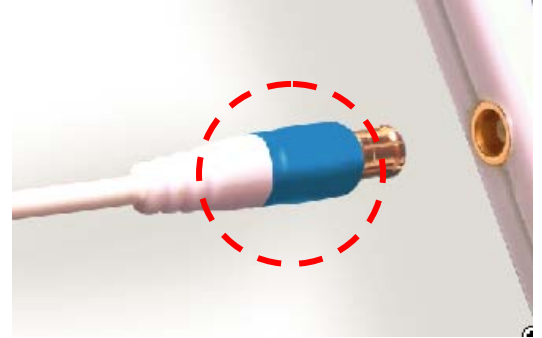
<b>Part Order Code</b>	TREX-8
<b>Remote Temperature Sensor Measurement range</b>	-40 ~ +99°C (-40°F ~ +210°F)
<b>Recorder operating temperature range</b>	-40 ~ +85°C (-40°F ~ +185°F)
<p style="text-align: center;"><b>Rated Temperature reading accuracy*</b></p> <p>* Ex-factory values with standard 1.5m LogTag supplied probe</p> <p>With recorder case sitting in environmental temperature between 0°C ~ 50°C the rated accuracy is :-</p> <p style="text-align: center;">±0.5°C for -10°C~ +40°C  better than ±0.7°C for -10°C~ -30°C &amp; +40°C~+60°C  better than ±0.8°C for -30°C~ -40°C &amp; +60°C~+80°C  better than ±1.0°C for +80°C~+99°C</p> <p>For generalized environment conditions see Chart below</p> <div style="text-align: center;"> <p><b>LogTag TREX Temperature Recorder</b> Rated remote sensor temperature reading accuracy</p> <p>— recorder @ +25°C — recorder @ -20°C — recorder @ -40°C</p> </div>	<p style="text-align: center;"><b>Rated Temperature reading resolution#</b></p> <p style="text-align: center;">less than 0.1°C for -40°C ~ +40°C,  less than 0.2°C for +40°C ~ +80°C  less than 0.6°C for +80°C ~ +99°C (see below)</p> <div style="text-align: center;"> <p><b>LogTag TREX Temperature Recorder</b> Rated native temperature reading resolution</p> </div>
<p>Actual performance is normally much better than the rated values.</p> <p>Accuracy figures can be improved by recalibration.</p>	<p># LogTag Analyser currently displays to one decimal place of °C or °F. The native resolution is what is stored in the LogTag.</p>
<b>Capacity</b>	8000 temperature readings (16Kbytes memory)
<b>Sampling frequency</b>	adjustable, 30 sec to several hours
<b>Download Time</b>	Typically with full memory in less than 5 seconds depending on computer or readout device used.
<b>Environmental</b>	IP61
<b>Power source</b>	3V Lithium - replaceable by qualified technician
<b>Battery life</b>	2~3 years typical use – longer (up to 5-10 years) if recorder is hibernated between uses.
<b>Standard Remote Sensor Cable Lengths</b>	Standard: 1.5m (4'11") Extended: 3 m (9'10") (recommended maximum)
<b>Remote Sensor Cable Type</b>	PTFE (FDA food contact rated) coaxial
<b>Size</b>	86mm(H)x54.5mm(W)x8.6mm(T)
<b>Weight</b>	35grams without ST100
<b>Case Material</b>	Polycarbonate

## LogTag® Remote Probe Options

LogTag® TREX is designed and calibrated for use with the LogTag ST100 remote temperature probe. Only this probe is compatible with TREX and using any other probe type is likely to cause an error in readings.

### Identifying an ST100 probe

The ST100 probe is distinguished from other LogTag® remote temperature probe types by the blue sleeve blue body at the plug end of the probe cable.



### Handled probe



Part#s ST100H-15 (1.5m) and ST100H-30 (3.0m)

The standard handled probe incorporates a 70mm long shaped overmolded handle with a 105mm length 5mm OD (slightly greater than 3/16") 316 stainless probe. All materials at probe end of cable are FDA food rated including the cable.

Supplied standard (part# ST100H-15) with 1.5m (4'11") or 3.0m (9'10") cable terminated to MCX plug for plugging into LogTag® TREX.

### Tipped probe



Part#s ST100T-15 (1.5m) and ST100T-30 (3.0m)

The tipped probe incorporates a 140mm exposed length of 5mm OD 316 stainless probe without handle but with small over mold to improve resistance to moisture and provide cable strain relief.

All materials at probe end of cable are FDA food rated including the cable.

Supplied standard (part# ST100HT-15) with 1.5m (4'11") or 3.0m (9'10") cable terminated to MCX plug for plugging into LogTag® TREX.

## Short tipped probe



Part#s ST100S-15 (1.5m) and ST100S-30 (3.0m)

The short tipped probe incorporates a 30mm exposed length of 5mm OD 316 stainless probe without handle but with small over mold to improve resistance to moisture and provide cable strain relief.

All materials at probe end of cable are FDA food rated including the cable.

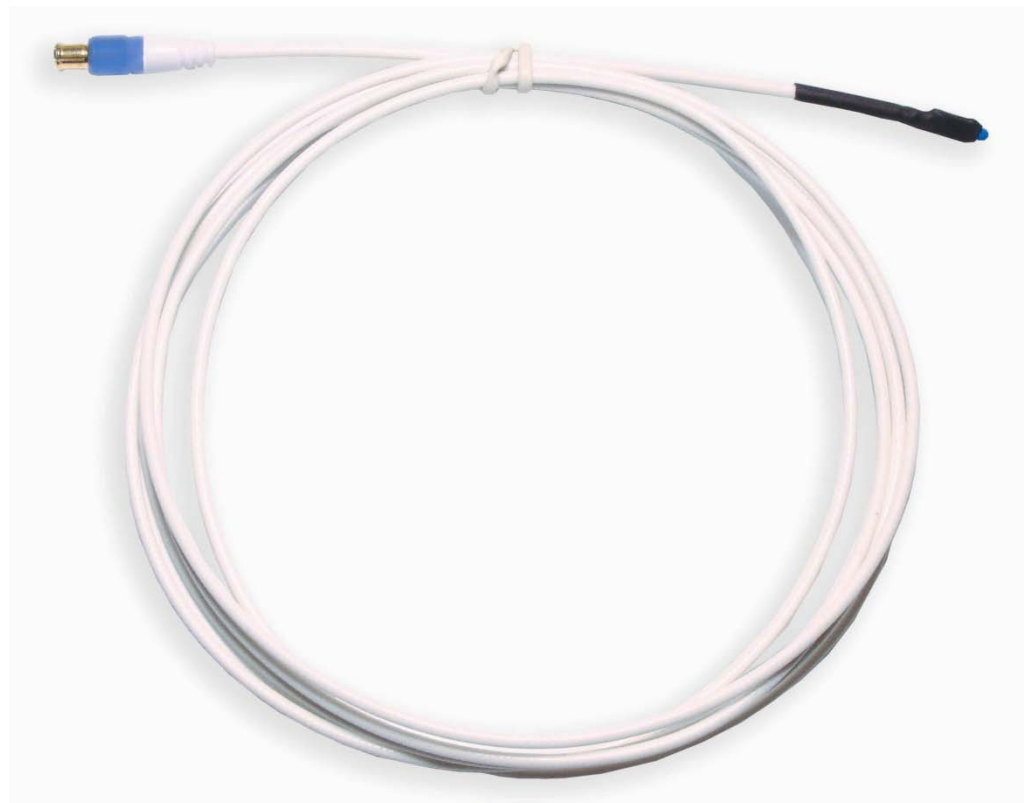
Supplied standard (part# ST100S-15) with 1.5m (4'11") or extended (part#ST100S-30) with 3m (9'10") cable terminated to MCX plug for plugging into *LogTag*<sup>®</sup> TREX.

## Bare probe

Bare sensor without stainless sheath ready for fitting to custom probe assembly.

Not rated for food contact or environmentally rated.

Supplied standard (part# ST100B-15) with 1.5m (4'11") or 3.0m (9'10") cable terminated to MCX plug for plugging into *LogTag*<sup>®</sup> TREX.



Parts# ST100B-15 (1.5m) and ST100B-30 (3.0m)

*LogTag*<sup>®</sup> ST100 sensors are designed and calibrated for interchangeability with TREX loggers to the standard rated accuracy of the product. If a TREX/ST100 probe combination is calibrated to a higher level of accuracy (as is possible) then care should be taken to always use the same TREX/ST100 combination for measurements as the ST100 sensor is not rated interchangeable at accuracies better than the TREX/ST100 rating in this specification.

NOTE: INFORMATION AND SPECIFICATIONS SUBJECT TO CHANGE

LogTag Recorders Ltd reserves the right to change this product's specifications without notice.

Copyright © 2011, LogTag Recorders Limited. All Rights Reserved

*LogTag*<sup>®</sup> is a registered trademark of LogTag Recorders Ltd