



# USRIC-4 Single-Use USB Temperature Recorder

- Integral USB connector - no separate Interface Cradle required.
- Suitable for multiple independent receivers, clinical trials and last-mile distribution.
- Up to 4,000 real time temperature recordings.
- User configurable options - no need to buy a special recorder for each application.
- Customize start options, logging interval, alert parameters and many more.
- A real time clock provides date/time stamps for each temperature reading.
- Push-to-start button with optional delay or a specific time & date.
- Robust and durable polycarbonate case with lug for secure mounting.

Designed as a Single-use, cost effective & reliable temperature recorder, the LogTag<sup>®</sup> USRIC-4 measures and stores real time temperature readings over a measurement range of -25°C to +60°C (-13°F to +140°F).

The USRIC-4 combines all the features of an advanced temperature recorder with a 4,000 log memory and a 6-month operating life in a robust and inexpensive package.

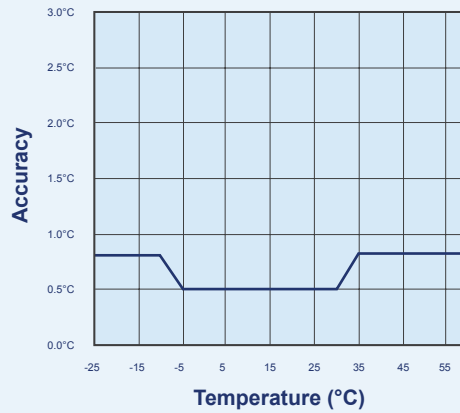
The USRIC-4 plugs directly into the computer USB for easy configuration by the user for a wide range of recording and alert conditions.

Readings are downloaded using LogTag Analyzer<sup>®</sup>, which provides facilities for displaying data in chart, table or statistical formats and allows electronic archiving, export or transmission of the data in support of sophisticated data management systems.

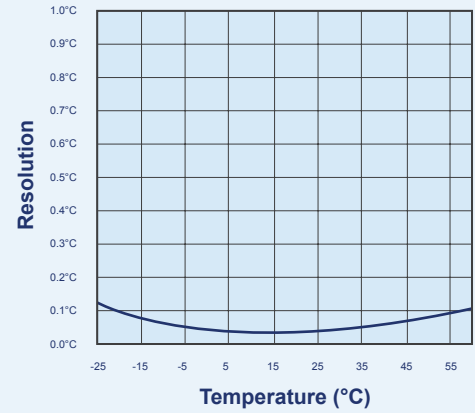
A red ALERT indicator provides an immediate indication - without access to a PC - if any readings are outside the limits specified at the time the unit was configured. A green OK indicator provides immediate visual confirmation that the unit is operating.



Rated Absolute Accuracy



Rated Native Resolution



## Product Specifications

<b>Product Model</b>	USRIC-4
<b>Sensor Measurement Range</b>	-25°C to +60°C (-13°F to +140°F).
<b>Operating Temperature Range</b>	-25°C to +60°C (-13°F to +140°F).
<b>Storage Temperature Range</b>	0°C to +40°C (32°F to +104°F).
<b>Rated Temperature Reading Accuracy</b>	Better than $\pm 0.5^{\circ}\text{C}$ ( $\pm 0.9^{\circ}\text{F}$ ) for $-5^{\circ}\text{C}$ to $+30^{\circ}\text{C}$ ( $23^{\circ}\text{F}$ to $+86^{\circ}\text{F}$ ). $\pm 0.8^{\circ}\text{C}$ ( $\pm 1.5^{\circ}\text{F}$ ) or better for measurements in other areas of rated range. <i>Actual performance is typically much better than the rated values. Please see the Rated Absolute Accuracy chart below. Accuracy figures can be improved by recalibration.</i>
<b>Rated Temperature Reading Resolution</b>	$< 0.1^{\circ}\text{C}/\text{F}$ <i>Please see the Rated Native Resolution chart below. LogTag Analyzer<sup>®</sup> currently displays to one decimal place of °C or °F. The native resolution is what is stored in the LogTag<sup>®</sup>.</i>
<b>Sensor Reaction Time</b>	Typically less than 5 minutes (T90) in moving air (1m/s).
<b>Recording Capacity</b>	3937 temperature readings. 14 days @ 5min logging, 41 days @ 15min logging.
<b>Sampling Interval</b>	Configurable from 1 minute to 18 hours.
<b>Logging Start Options</b>	Push button start or specific date & time.
<b>Recording Indication</b>	Flashing 'OK' indicator / flashing 'ALERT' indicator.
<b>Alarms</b>	1 configurable upper and 1 configurable lower alarms.
<b>Download Time</b>	Typically less than 4 seconds for full memory (3937 readings), depending on computer or readout device used.
<b>Environmental</b>	IP64 with USB cap fitted.
<b>Power Source</b>	3V Li-Mg Battery.
<b>Battery Life</b>	Shelf life of up to two years before configuration. Six months operating life from the time of configuration.
<b>Real Time Clock</b>	Built-in real time clock. Rated accuracy $\pm 25\text{ppm}$ @ $25^{\circ}\text{C}$ (equivalent to 2.5 seconds/day). Rated temperature coefficient is $-0.034 \pm 0.006\text{ppm}/^{\circ}\text{C}$ (i.e typically $\pm 0.00294$ seconds/day/°C).
<b>Connection Interface</b>	USB 2.0, A-type plug.
<b>Software</b>	LogTag <sup>®</sup> Analyzer 2.5 or higher.
<b>Size</b>	93mm(H) x 54.5mm(W) x 8.6mm(T) including protective USB cap.
<b>Weight</b>	30g.
<b>Case Material</b>	Polycarbonate.

## Accessories



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