

# KEYTAG KTL-108-D

...the key to "price-less" data logging.

## Temperature Recorder with 30 day summary display

The Keytag KTL-108-D Temperature Recorder measures and stores up to 7770 temperature readings over -40°C to +99°C (-40°F to +210°F) measurement range from a remote temperature probe.

Statistical temperature and duration readings for up to 30 days can be reviewed on the display. The visual display of current temperature and previous alarms is an important feature in "static" applications such as cool rooms and refrigerators. The display arrangement is designed to show 'at a glance' if temperature violations have occurred during the current day and up to the previous 29 days. The display also shows the current temperature reading, the current time, recording status and battery status.

Details of any excursions can be checked directly by inspecting the statistics history on the recorder's display or in more detail by downloading the logged data via a standard KeyTag Interface cradle to KeyTag Analyzer. If a reading outside the pre-set "Alarm" limits is recorded at any time, a "day alarm indicator" appears on the display.

**KTL-108-D** Equipped with user replaceable battery (CR2032) with typical battery life of 1 year.

**KTL-108-D-F** Fixed cell (non user replaceable) with typical battery life of 2-3 years.



KeyTag KTL-108-D recorder

## Specifications:

<b>Remote Sensor Measurement Range</b>	-40°C ~ +99°C (-40°F ~ +210°F)
<b>Recorder operating temperature range</b>	-30°C ~ +60°C (-22°F ~ +140°F)
<b>Display resolution</b>	0.1°C (0.2°F) for measurements -40°C ~ +50°C (-22°F ~ +122°F) 0.2°C (0.4°F) for measurements +50°C ~ +70°C (+122°F ~ +158°F) 0.3°C (0.5°F) for measurements +70°C ~ +80°C (+158°F ~ +176°F)
<b>Rated Temperature reading accuracy</b>	Better than ±0.5°C (±0.9°F) for -20°C~+40°C (-22°F~+104°F) -typically ±0.3°C (0.6°F) Better than ±0.8°C (±1.5°F) for -40°C~+20°C (-40°F~ -22°F) - typically ±0.5°C (0.9°F) Better than ±0.8°C (±1.5°F) for +40°C~+70°C (-104°F~+158°F -typically ±0.7°C(0.9°F) Better than ±1.2°C (±1.5°F) for +70°C~+99°C (-158°F~+210°F) -typically ±1°C(0.9°F).
<b>Sensor reaction time (T90)</b>	T90 typically less than 2 min in moving air (1m/s) for ST100T, ST100H and ST100S
<b>Capacity</b>	Data logging memory : 7770 logs(53 days@10min logging, 80days@15min logging) Day summary statistics memory (for display on LCD): up for 30 days of Max/Min and duration values
<b>Sampling frequency</b>	adjustable, 30 sec to several hours
<b>Logging start options</b>	Push button start or specific date & time. Optional start delay of up to 18 hours
<b>Recording indication</b>	State indicator "RECORDING"
<b>Download Time</b>	Typically with full memory (7770 readings) in less than 5 secs depending on computer or readout device used
<b>Environmental</b>	IP61
<b>Power source</b>	3V Lithium-Manganese Dioxide extended temperature chemistry
<b>Battery life</b>	KTL-108-D: Typically 1 year of operation KTL-108-D-F: Typically 2+ years
<b>Size</b>	93.0mm(H)x54.5mm(W)x8.6mm(T)
<b>Weight</b>	KTL-108-D: 39g KTL-108-D-F: 43g
<b>Case Material</b>	Polycarbonate
<b>Reader Interface</b>	Standard KeyTag interface cradle
<b>Remote Temperature probes</b>	Standard KeyTag ST100 temperature probes (Standard lengths 1.5m (4'11") or 3m (9'10")) Extended: 3 m (9'10") (Part# ST10S-30)
<b>Other features</b>	<ul style="list-style-type: none"><li>• Logging start by push button or specific date/time start</li><li>• Optional clearing of alert indication by push button (places inspection mark at same time)</li><li>• Download inspection mark recorded in KeyTag memory every time KeyTag is downloaded</li><li>• 'Prestart' fail-safe logging (records temperature data even if not started)</li><li>• Low Battery indication in software</li><li>• Comprehensive Alert indicator configuration</li><li>• Calibration to achieve higher accuracy possible</li></ul>
<b>EMC Compliances</b>	EC EMC directives (EN 50081-1:1992 & EN 61000-6-1:2001) and FCC Part 15 Subparts A and B

**Note: Resolution & Accuracy are rated values - actual product performance may be substantially better than figures stated.**

**KEYLOG RECORDERS**  
...the key to all data logging solutions.

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# KEYTAG ACCESSORIES

...the key to "price-less" data logging.

## KeyTag Interface Cradles.

KeyTag's unique interface cradle design provides rapid and reliable KeyTag data transfer to KeyTag Analyzer software in only a few seconds. (by far the fastest in its class in the market)

Designed for high levels of use, the KeyTag Interface cradle can sustain many 10000's of insert cycles and gold plated contact design resists the effects of dirt and moisture.

KeyTag software can support multiple interface cradles thereby reducing the processing time of multiple KeyTag download or configuring.

USB drivers are Microsoft WHQL digitally signed and available for download from Windows Update

**Product code KTI-USB** (USB version)

**Product code KTI-232** (RS232 serial version)



## KeyTag Protective Enclosure

The KeyTag Protective Enclosure is specifically designed for use with KeyTag recorder products and allows KeyTags to be used in harsh environments.

The design of the enclosure minimises the effects of thermal lag caused by the additional casing. In general, the enclosure adds about 70% to the reaction time to temperature change for a given environment.

The enclosure's case is made from high impact polycarbonate plastic and is clear to allow viewing of the enclosed recorder's LCD or indicators.

Conservatively rated at IP67 (equivalent to NEMA6).

Supports KTL-108-D(-F), KTL-004, KTL-108, KTL-116, KTL-018-T and KTL-118-T products.

**Product code KTA-PE**

## KeyTag Wall Mount Bracket

The KeyTag Wall Mount Bracket provides an easy and tidy solution to mounting a KeyTag on a wall, door or vertical surface while still allowing easy removal of the KeyTag for download etc.

The Wall Mount Bracket can be used inside coolstores, refrigerators, freezers, shipping containers and many other applications.

Fixing can be by the supplied double coated foam tape which offers very high bond strength on smooth unified surfaces or by optionally fixing with screws.

The Wall Mount Bracket accepts all current KeyTag recorder products including models with remote sensors which can be placed in or removed from the bracket without unplugging the sensor.

Molded in polycarbonate plastic to allow use in a large range of environments.

**Product code KTA-WMB**

