

# KEYTAG KTL-208

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

## Remote probe temperature recorder.

The KeyTag KTL-208 Remote Probe Temperature Logger supports applications where a remote probe is required. A range of interchangeable probes (ST100) are available to suit most applications. .

The KeyTag KTL-208 Logger measures and stores up to 8000 temperature readings over -40°C to +99°C (-40°F to +210°F) measurement range.

Using the KTL-208 Interface and the freely available companion software KeyTag Analyzer, the KTL-208 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 KeyTag Analyzer which provides facilities for charting, zooming, listing data statistics and allows exporting the data to other applications such as MS Excel.



KeyTag KTL-208 recorder and ST100S probe

## Specifications:

<b>Remote Sensor Measurement Range</b>	-40°C ~ +99°C (-40°F ~ +210°F)
<b>Recorder operating temperature range</b>	-40°C ~ +85°C (-40°F ~ +185°F)
<b>Resolution</b>	less than 0.1°C (<+40°C), less than 0.2°C (+40°C ~ +80°C), Less than .0.6°C (>+80°C)
<b>Accuracy (environment logger 0-50°C)</b>	±0.5°C for -10°C ~ +40°C better than ±0.7°C for -10°C ~ -30°C & +40°C ~ +60°C better than ±0.8°C for -30°C ~ -40°C & +60°C ~ +80°C better than ±1.0°C for +80°C ~ +99°C
<b>Sensor reaction time</b>	T90 typically less than 2 minutes in moving air (1m/s) for ST100T, ST100H and ST100S types
<b>Capacity</b>	16159 readings (32K bytes memory)
<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>	Flashing 'OK' indicator flashing 'Alert' indicator
<b>Download Time</b>	Typically with full memory (16159 readings) in less than 10 seconds depending on computer or readout device used
<b>Environmental</b>	IP65 (roughly equivalent to NEMA 4)
<b>Power source</b>	3V Lithium battery
<b>Battery life</b>	2 ~ 3 years of normal use (based on 15 minute logging, download data monthly
<b>Size</b>	86mm(H)x54.5mm(W)x8.6mm(T)
<b>Weight</b>	35g
<b>Case Material</b>	Polycarbonate
<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 make 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**

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# KEYTAG ACCESSORIES

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## 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**



# KEYTAG PROBES

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## ST100 Probes for KTL-208 and KTL-208-D(-F)



### Short Tipped probes

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.

**KTA-ST100S-15** KeyTag External Sensor with 1.5 meter cable (-40/+99°C)

**KTA-ST100S-30** KeyTag External Sensor with 3.0 meter cable (-40/+99°C)



### Tipped probes

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.

**KTA-ST100T-15** KeyTag External Sensor with 1.5 meter cable (-40/+99°C)

**KTA-ST100T-30** KeyTag External Sensor with 3.0 meter cable (-40/+99°C)



### Handled probes

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.

**KTA-ST100H-15** KeyTag External Sensor with 1.5 meter cable (-40/+99°C)

**KTA-ST100H-30** KeyTag External Sensor with 3.0 meter cable (-40/+99°C)



### Bare probes

The bare sensor without stainless sheath ready for fitting to custom probe assembly. Not rated for food contact or environmentally rated.

**KTA-ST100B-15** KeyTag External Sensor with 1.5 meter cable (-40/+99°C)

**KTA-ST100B-30** KeyTag External Sensor with 3.0 meter cable (-40/+99°C)

## ST10 Probes for KTL-218



### Short Tipped probes

The 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.

**KTA-ST10S-05** KeyTag External Sensor with 0.5 meter cable (-80/+40°C)

**KTA-ST10S-30** KeyTag External Sensor with 3.0 meter cable (-80/+40°C)

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