

## Tinytalk External Temperature (-40 to +125°C)

### TK-0023

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E&OE

Tinytalks are compact, lightweight, economical loggers housed in a 35mm film canister.

These loggers are used in a wide range of applications including fridge monitoring, building condition monitoring and academia.

The TK-0023 has an external probe allowing fast changing temperatures in difficult to access areas to be accurately tracked.



#### Popular Applications

- Building condition monitoring
- Pharmaceutical storage
- Dry food storage
- Museum display and repository

#### Features

- Temperature recorder
- 1,800 reading capacity
- User-programmable logging interval
- 3 stop options
- Splash proof case
- User-replaceable battery





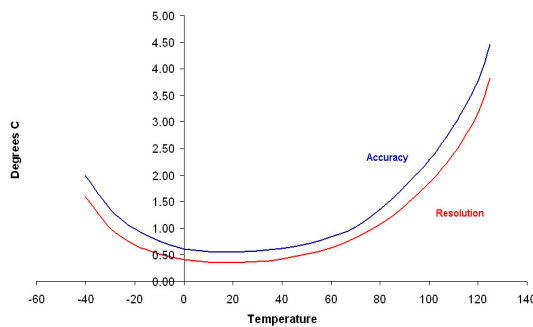
### Features

<b>Total Reading Capacity</b>	1,800 readings
<b>Memory type</b>	Non Volatile
<b>Delayed Start</b>	Relative / Absolute (up to 45 days)
<b>Stop Options</b>	When full After n Readings Never (overwrite oldest data)
<b>Logging Interval</b>	1 sec to 4.5 hours
<b>Offload</b>	While stopped

### Reading Specification

<b>Reading Range</b>	-40°C to +125°C (-40°F to +257°F)
<b>Sensor Type</b>	10K NTC Thermistor (external probe)

### Resolution and Accuracy



The above is the reading resolution of the data logger and the overall accuracy of the unit when used with a PB-5005-0M6 (supplied).

### Physical Specification

<b>Ingress Protection</b>	Not water-proof
<b>Operational Range*</b>	-40°C to +85°C (-40°F to +185°F)
<b>Case Dimensions†</b>	
<b>Diameter</b>	34mm / 1.34"
<b>Height</b>	54mm / 2.13"
<b>Weight</b>	50g / 1.8oz

\*The Operational Range indicates the physical limits to which the unit can be exposed, not the reading range over which it will record.

†The Case Dimensions do not include the PB-5005-0M6 (supplied).

### Notes

**Battery Type** SAFT LS14250 or LST14250; Tekcell SBAA02P

The logger will operate with other ½AA 3.6V Lithium (Li-SOCl<sub>2</sub>) batteries but performance cannot be guaranteed.

**Replacement Interval** Every two years

Before replacing the battery the data logger must be stopped.

Data stored on the logger will be retained after a battery is replaced.

If used at low temperatures the data logger should be allowed to warm to room temperature before it is opened to avoid condensation forming inside the unit.

### Calibration

This unit is configured to meet Gemini's quoted specification during its manufacture.

We recommend that the calibration of this unit should be checked annually against a calibrated reference meter.

A UKAS traceable certificate of calibration can be supplied for an additional charge either at the point of purchase, or if the unit is returned for a service calibration.

### Approvals

This equipment complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause any harmful interference, and (2) the device must accept any interference received, including interference that may cause undesired operation.

This product is manufactured by Gemini Data Loggers (UK) Ltd to BS EN ISO9001:2000 (Certificate No. 6134).



### Required and Related Products

To use this data logger you will also require:

A PB-5005-0M6: Tinytalk thermistor probe (supplied)

One of the following pieces of software:

SWCD-0040: Tinytag Explorer software or  
SW-1500: Easyview Light software or  
SW-0500: Easyview Pro software

and a

CAB-0005: Tinytag Transit / Tinytalk PC Serial Download Cable

Further related products:

CAB-USB: USB to Serial Converter  
SER-9510: Tinytalk Service Kit