

Tinytalk Temperature Logger with PT100 Probe (-50 to +300 °C)

TK-0102

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E&OE

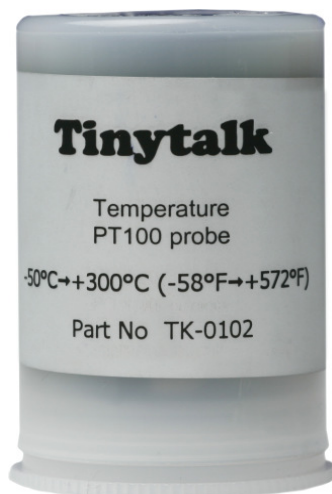
Tinytalks are compact, lightweight, economical loggers housed in a 35mm film canister.

TK-0102 is supplied with a PT100 probe and is aimed at users wishing to record temperatures up to 300 degrees.

The TK-102 is our most cost effective high temperature logging solution, and is particularly useful when space is at a premium.

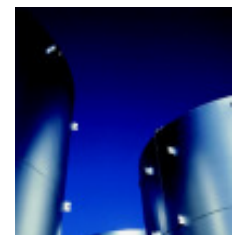
Popular Applications

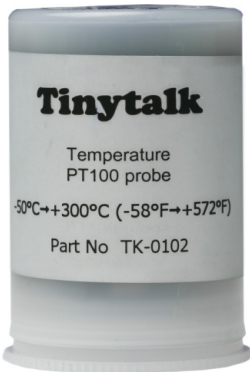
- Food processing and storage
- Pharmaceutical manufacture
- Logistics monitoring



Features

- Temperature recorder
- 1,800 reading capacity
- High Reading Resolution
- Fast Data Offload
- Low battery monitor
- User-replaceable battery





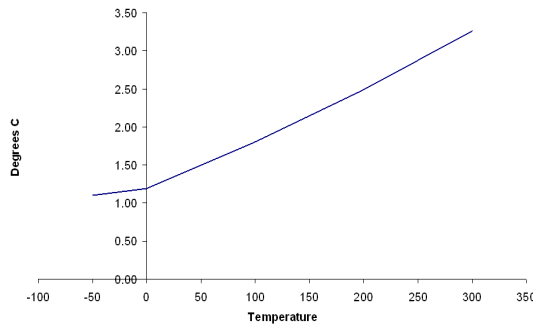
Features

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

Reading Specification

| | |
|------------------------------|-------------------------------------------------------------------------------|
| Reading Range | -50 °C to +300 °C (-58 °F to +572 °F) |
| Sensor Type | PT100 (external probe) BS EN 60751, IEC 60751 Class A 0.01 °C or better |
| Resolution | 0.015 °C/°C change from ambient (25 °C) |
| Temperature Stability | 0.015 °C/°C change from ambient (25 °C) |

Accuracy



The above is the accuracy of the data logger when used with the supplied PB-6002-1M5 probe.

Physical Specification

| | |
|---------------------------|--------------------------------------|
| Ingress Protection | IP30 (not water-proof) |
| Operational Range* | -40 °C to +85 °C (-40 °F to +185 °F) |
| Case Dimensions† | |
| Diameter | 34mm / 1.34" |
| Height | 54mm / 2.13" |
| Weight | 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-6002-1M5 (supplied).

Notes

| | |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Battery Type | SAFT LS14250 or LST14250; Tekcell SBAA02P |
| The logger will operate with other ½AA 3.6V Lithium (Li-SOCl ₂) 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 certificate of calibration, traceable to a national standard, can be supplied for an additional charge either at the point of purchase, or if the unit is returned for a service calibration.

Approvals

Gemini Data Loggers (UK) Ltd. operates a Business Management System which conforms to ISO 9001 and ISO 14001.



Required and Related Products

To use this data logger you will also require:

A PB-6002-1M5: Tinytalk PT100 probe (supplied)

The following software:

SWCD-0040: Tinytag Explorer software

and a

CAB-0005-USB: Tinytag Transit/Talk USB Download Cable

Further Related Products

SER-9500: Tinytag Data Logger Service Kit