

Tinytag Medical Internal Temperature (-40°C to +85°C)

TGM-0040

Issue 4
20th February 2006
E&OE

The Tinytag Medical is a simple, cost effective way of monitoring the temperature of pharmaceuticals in fridges, freezers and cool (ambient) storage. Used widely by hospital pharmacies, surgeries and health centres, the logger automatically records and stores a complete temperature history.

The Tinytag Medical has two alarms that can be user set at high and low levels specific to the products being monitored. Breaching these set-points will trip a flashing red light, enabling spot assessment of ongoing temperature levels.

This compact, battery powered unit is reliable and highly accurate. Designed with a temperature response similar to many vaccine formats, it accurately profiles the temperature changes experienced by the pharmaceuticals being monitored.

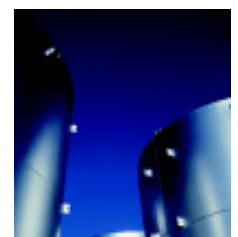
The recording interval is user defined and with a memory capacity of 8000 readings this would provide six months of data with a reading every half hour. The temperature history is transferred easily to PC, where Tinytag Explorer will automatically produce a graph and table of the data, creating a permanent record.

Typical Applications

- Fridge and freezer monitoring
- Transportation of pharmaceuticals and blood products
- Mobile vaccination programs
- Culture room monitoring

Features:

- Low cost temperature recorder
- 8,000 reading capacity
- High accuracy and reading resolution
- User-programmable logging interval
- Delayed and trigger start options
- 3 stop options
- Splash-proof case
- User-replaceable battery





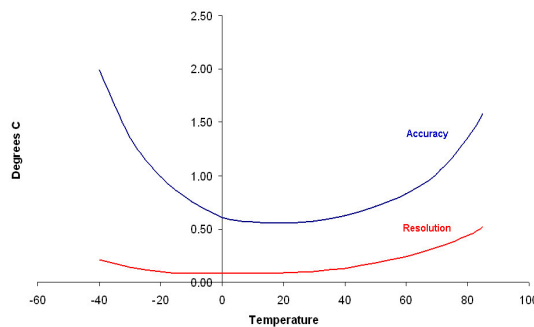
Features

Total Reading Capacity	8,000 readings.
Memory type	Non Volatile
Trigger Start	Magnetic Switch
Delayed Start	Relative / Absolute (up to 45 days)
Stop Options	When full After n Readings Never (overwrite oldest data)
Reading Types	Actual, Min, Max
Logging Interval	1 sec to 10 days
Offload	While stopped or when logging in minutes mode
Alarms	2 fully programmable; latching

Reading Specification

Reading Range	-40°C to +85°C (-40°F to +185°F)
Sensor Type	10K NTC Thermistor (Internally mounted)
Response Time	40 min to 90% FSD in air
Reading Resolution	12 bit

Resolution and Accuracy



Physical Specification

IP Rating	IP20 (Splash-proof)
Operational Range*	-40°C to +85°C (-40°F to +185°F)
Case Dimensions	
Height	54mm / 2.13"
Diameter	34mm / 1.34"
Weight	30g / 1.1oz

*The Operational Range indicates the physical limits to which the unit can be exposed.

Notes

Battery Type SAFT LS14250 or LST14250; Tekcell SBAA02P

The logger will operate with other ½AA 3.6V Lithium (Li-SOCl₂) batteries but performance cannot be guaranteed.

Replacement Interval Every 2 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 data loggers should be allowed to warm to room temperature before they are 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 once every twelve months 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 require:

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
ACS-6000: Trigger Start Magnet
SER-9510: Tinytalk Service Kit