Gemini
DATA LOGGERS

Tinytag

Tinyview Plus Dual Channel Internal/External Temperature (-30 to +50°C/-40 to 125°C)

TV-1510

Issue 6
11th January 2006
E&OE

The TV-1510 is equipped with an LCD display to provide an instant indication of the temperature and alarm conditions.

The logger is made with food grade materials and is most commonly used in fridges and chill cabinets.

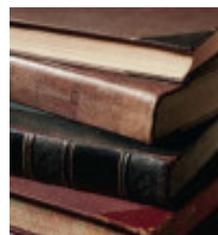This unit can be used to compare ambient and process conditions.

Popular Applications

- Environmental monitoring
- Food processing and storage
- Pharmaceutical manufacture
- Logistics monitoring
- Museums and art galleries

Features

- Dual Channel temperature recorder
- 30,000 reading capacity
- User-programmable logging interval
- 2 user-programmable alarms
- Delayed start options
- 3 stop options
- Splash proof case
- User-replaceable battery

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Features

Total Reading Capacity	30,000 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; latch-able

Physical Specification

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IP Rating	IP68 water-proof (see notes)
Operational Range*	-40°C to +85°C
Case Dimensions	
Diameter	60mm / 2.36"
Length	84mm / 3.31"
Width	76mm / 2.99"
Depth	35mm / 1.38"
Weight	85g / 3oz

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

Reading Specification

Internal Temperature

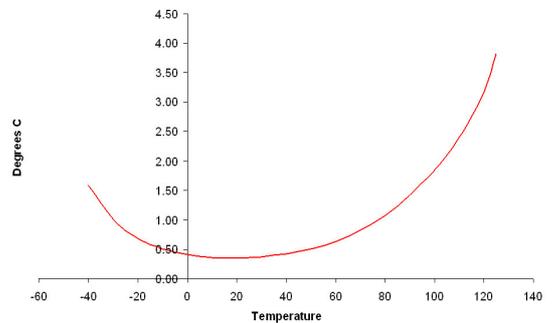|	
Reading Range	-30°C to +50°C
Sensor Type	10K NTC Thermistor (Integral)
Response Time	10 mins to 90% FSD in moving air

Reading Resolution and Overall Accuracy
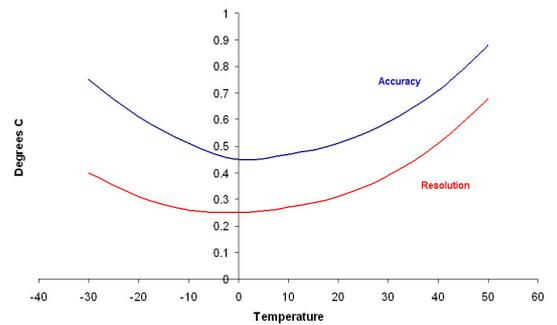
Display Resolution	0.5°C

External Temperature

Reading Range	-40°C to +125°C
Sensor Type	10K NTC Thermistor (External probe)

Logger Resolution and Accuracy*

The reading resolution and reading accuracy of the external channel are the same.
*The overall accuracy of the external channel will depend on the probe used.

Display Resolution	0.5°C

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Notes

Battery Type   SAFT LST14250 3.6v ½AA Lithium Cell

Replacement Interval   Annually

Before replacing the battery the data logger must be stopped.

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

The clarity of the display may change at extremes of temperature.

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.

The IP65 rating is valid only when the unit's connector cap and probe are securely fitted.

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:

One of the following probes:

PB-5001-1M5/3M/5M: Standard Thermistor Probe or
PB-5002-1M5/3M/5M: Fast Response Thermistor Probe or
PB-5003-1M5: Surface Thermistor Probe

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-0007: Tinytag PC Serial Download Cable

Further related products:

CAB-USB: USB to Serial Converter
SER-9550: Tinyview Plus Service Kit
ACS-6000: Trigger Start Magnet

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