

## Tinytag View 2 Temperature Logger with Integral Sensor and for Thermistor Probe (-30 to +50 °C/-40 to +125 °C)

### TV-4510

#### Issue 2

23rd November 2007  
E&OE

Tinytag View 2s are all housed in an attractive IP65 case and have an integral display. All feature high reading accuracy and resolution, large memories, a fast offload speed and a low battery monitor.

The TV-4510 has an integral sensor and a connection for an external thermistor probe (not included) that makes the unit ideal for comparing ambient and process conditions.

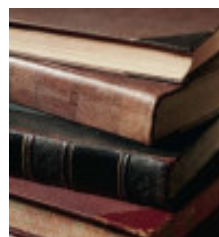
#### Popular Applications

- Chill cabinets and fridges
- Building condition monitoring
- Environmental monitoring
- Pharmaceutical storage



#### Features

- Dual channel temperature recorder
- LCD display of current readings
- 30,000 reading capacity
- High Accuracy
- High Reading Resolution
- Fast Data Offload
- 2 user-programmable alarms
- Low battery monitor
- User-replaceable battery



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## Features

<b>Total Reading Capacity</b>	30,000 readings
<b>Memory type</b>	Non Volatile
<b>Display</b>	4 digits + indicators
<b>Display Modes</b>	°C or °F
<b>Display Refresh Rate</b>	Every 2 seconds (alternating integral/probe temperature)
<b>Trigger Start</b>	Magnetic Switch
<b>Delayed Start</b>	Relative / Absolute (up to 45 days)
<b>Stop Options</b>	When full After n Readings Never (overwrite oldest data)
<b>Reading Types</b>	Actual, Min, Max
<b>Logging Interval</b>	1 sec to 10 days
<b>Offload</b>	While stopped or when logging in minutes mode
<b>Alarms</b>	2 fully programmable; latching

## Physical Specification

<b>IP Rating</b>	IP65 splash proof (see notes)
<b>Operational Range*</b>	-30 °C to +70 °C
<b>Case Dimensions</b>	
<b>Diameter</b>	60mm / 2.36"
<b>Length</b>	85mm / 3.35"
<b>Width</b>	77mm / 3.03"
<b>Depth</b>	35mm / 1.38"
<b>Weight</b>	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.

## Notes

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

The logger will operate with other ½AA 3.6V Lithium (Li-SOCI2) batteries but performance cannot be guaranteed.

**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.

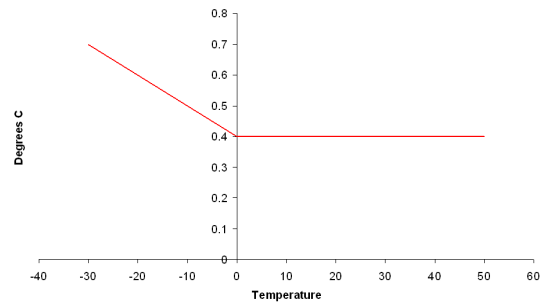
The clarity of the display may change at extremes of temperature.

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.

## Reading Specification

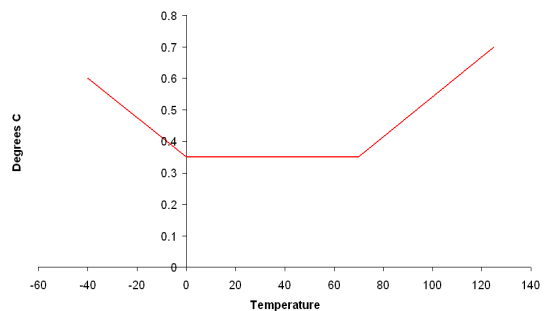
<b>Integral Channel</b>	
<b>Reading Range</b>	-30 °C to +50 °C (-22 °F to 122 °F)
<b>Sensor Type</b>	10K NTC Thermistor
<b>Response Time</b>	10 mins to 90% FSD in moving air
<b>Logger Resolution</b>	0.02 °C or better
<b>Display Resolution</b>	0.1 °C or 0.1 °F
<b>Accuracy</b>	



<b>Probe Channel</b>	
<b>Reading Range</b>	-40 °C to +125 °C (-40 °F to 257 °F)
<b>Sensor Type</b>	10K NTC Thermistor (external probe)
<b>Logger Resolution</b>	0.02 °C or better
<b>Display Resolution</b>	0.1 °C or 0.1 °F
<b>Temperature Stability</b>	0.005 °C/°C Change from 25 °C

### Accuracy

The graph below is the accuracy of the TV-4510 when used with a PB-5001-1M5/3M/5M or PB-5002-1M5/3M/5M probe. Using a different probe may affect the accuracy of the unit.



## Calibration

This unit is configured to meet Gemini's quoted accuracy 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.

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## 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.

Gemini Data Loggers (UK) Ltd. operates a Quality Management System which conforms to BS EN ISO 9001:2000. The scope of the system covers the manufacture, design and supply of data loggers and their associated software, accessories and services.



## Required and Related Products

To use this data logger you will require one of the following probes:

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

One of the following pieces of software:

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

and a

CAB-0007-USB: Tinytag Ultra/Plus/View USB Download Cable

Further related products:

CAB-0007: Tinytag Ultra/Plus/View Serial Download Cable  
SER-9550: Tinytag View 2 Service Kit  
ACS-5000: Tinytag Alarm Box  
ACS-6000: Trigger Start Magnet