

## Tinytag View 2 Temperature Logger for PT100 Probe (-50 to +300/600 °C)

### TV-4104

**Issue 4**  
14th August 2009  
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-4104 is designed to work with a pt100 probe.

Probes capable of measuring up to 300 or 600 °C are available making the logger suitable for oven or industrial process monitoring.

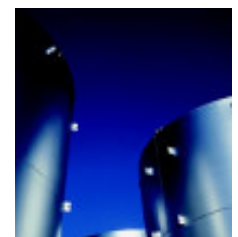
#### Popular Applications

- Industrial process monitoring
- Oven validation
- Autoclave validation
- Oven monitoring/validation
- Foodstuff temperature profiling



#### Features

- High 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





**Features**

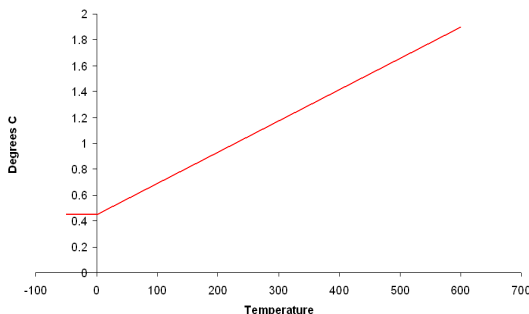
<b>Total Reading Capacity</b>	30,000 readings
<b>Memory type</b>	Non Volatile
<b>Display</b>	4 digits + indicators
<b>Display Modes</b>	°C or °F
<b>Display Refresh Rate</b>	Every 2 seconds
<b>Trigger Start</b>	Magnetic Switch
<b>Delayed Start</b>	Relative / Absolute (up to 45 days)
<b>Stop Options</b>	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

**Reading Specification**

<b>Reading Range</b>	-50 °C to +300/600 °C (-58 °F to 572/1112 °F)
<b>Sensor Type</b>	PT100 (external probe)
<b>Logger Resolution</b>	0.02 °C or better
<b>Display Resolution</b>	0.1 °C or 0.1 °F (1 °F above 999.9 °F)
<b>Temperature Stability</b>	0.01 °C/°C Change from 25 °C

**Accuracy**

The graph below is the accuracy of the TV-4104 when used with a PB-6005-1M5/3M or PB-6006-1M5/3M probe. Using a different probe may affect the accuracy of the unit.



**Physical Specification**

<b>IP Rating</b>	IP65 splash proof (see notes)
<b>Operational Range*</b>	-25 °C to +70 °C (-13 °F to +158 °F)
<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 1/2AA 3.6V Lithium (Li-SOCl<sub>2</sub>) 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.

**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.

**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 ISO 9001. The scope of the system covers the manufacture, design and supply of data loggers and their associated software, accessories and services.



data sheet



### Required and Related Products

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

PB-6005-1M5/3M: PT100 Probe (-50 to +300 °C) or  
PB-6006-1M5/3M: High Temperature PT100 Probe (-50 °C to +600 °C)

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

data sheet