

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

### TGP-4104

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E&OE

The workhorse of the Gemini range the Tinytag Plus 2 data loggers are housed in robust, waterproof (IP68) rated cases that are designed for use in harsh and outdoor applications.

Tinytag Plus 2 data loggers have a high reading accuracy and resolution, large memories, a fast offload speed and a low battery monitor.

The TGP-4104 uses an external probe (not included) to record in high temperature applications.

#### Popular Applications

- Food processing and storage
- Pharmaceutical manufacture
- Logistics monitoring



#### Features

- High temperature recorder
- 32,000 reading capacity
- High accuracy
- High reading resolution
- Fast data offload
- Robust, waterproof case
- Low battery monitor
- User-replaceable battery





### Features

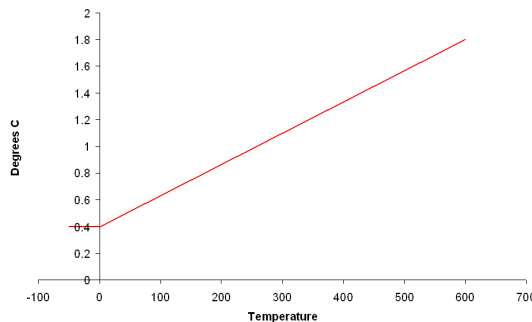
<b>Total Reading Capacity</b>	32,000 readings
<b>Memory type</b>	Non Volatile
<b>Trigger Start</b>	Magnetic Switch
<b>Delayed Start</b>	Relative / Absolute (up to 45 days)
<b>Stop Options</b>	When full After n Readings Never (overwrite oldest data)
<b>Reading Types</b>	Actual, Min, Max
<b>Logging Interval</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 600 °C (-58 °F to +1112 °F)
<b>Sensor Type</b>	PT100 (external probe)
<b>Reading Resolution</b>	0.02 °C or better
<b>Temperature Stability</b>	±0.015 °C/°C change from 25 °C

#### Accuracy

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



### Physical Specification

<b>IP Rating</b>	IP68 water-proof (see notes)
<b>Operational Range*</b>	-25 °C to +85 °C (-13 °F to +185 °F)
<b>Case Dimensions</b>	
<b>Height</b>	34mm / 1.34"
<b>Width</b>	59mm / 2.32"
<b>Depth</b>	80mm / 3.15"
<b>Weight</b>	110g / 3.9oz

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

### 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.

### Notes

<b>Battery Type</b>	SAFT LS14250 or LST14250; Tekcell SBAA02P
The logger will operate with other ½AA 3.6V Lithium (Li-SOCl <sub>2</sub> ) batteries but performance cannot be guaranteed.	
<b>Replacement Interval</b>	Annually
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.	
The IP68 rating is valid only when the unit's connector cap and probe are fitted and is valid to a depth of 15m (50ft).	

The position of the unit's trigger start switch is indicated by the ••• label on the back of the logger. When the "Wait until trigger event" option is selected in the Tinytag Explorer software, the green LED on the unit will flash once every eight seconds, indicating that the unit is waiting to log. When a magnet is held next to the label, the green LED will light until the magnet is removed to show that the switch is closed. After the magnet has been removed, the green LED will flash every four seconds to indicate that the logger is recording.

### 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 Quality and Environmental Management Systems which conform to ISO 9001 and ISO 14001. The scope of these systems covers the design, manufacture and servicing of data logging and associated equipment, including software.



### Required and Related Products

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

PB-6005-1M5/3M: PT100 Probe for use with TGP-4104 (-50 to +300 °C) or  
PB-6006-1M5/3M: High Temperature PT100 Probe for use with TGP-4104 (-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-9500: Tinytag Data Logger Service Kit  
ACS-6000: Trigger Start Magnet