



Tinytag Plus 2 Temperature Logger with Integral Sensor and for Thermistor Probe (-40 to +85 °C/-40 to +125 °C)

TGP-4510

Issue 11 2nd March 2018 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-4510 has an integral sensor and a connection for an external probe (not included) that makes the unit ideal for comparing 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
- 32,000 reading capacity
- High accuracy
- High reading resolution
- Fast data offload
- Robust, waterproof case
- Low battery monitor
- User-replaceable battery



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Tinytag Plus 2 Temperature Logger with Integral Sensor and for Thermistor Probe (-40 to +85 °C/-40 to +125 °C) TGP-4510

IP Rating

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Features

Memory type **Trigger Start Delayed Start Stop Options**

Reading Types

Offload

Alarms

Logging Interval

Reading Specification

Internal Temperature

Reading Range

Response Time

Reading Resolution

Sensor Type

Accuracy

Degrees C

-60

-40

External Temperature

Reading Resolution

Temperature Stability

Reading Range

Sensor Type

Accuracy

-60 -40 -20 0 20 40 60 80 100 120 140

-20

with a PB-5001, 5002 or 5003 probe.

Total Reading Capac

ity	32,000 readings
	Non Volatile
	Magnetic Switch
	Relative / Absolute
	(up to 45 days)
	When full
	After n Readings
	Never (overwrite oldest data)
	Actual, Min, Max
	1 sec to 10 days
	While stopped or when
	logging in minutes
	mode
	2 fully programmable; latchable

-40 ℃ to +85 ℃ (-40 °F to +185 °F)

25 mins to 90% FSD in moving air

10K NTC Thermistor

(Internally mounted)

0.01 °C or better

0.9

0.8

0.7

0,6

0.5

0.4 0.3 0.2 0.1

0

20

40

10K NTC Thermistor

(External probe)

60

-40 °C to +125 °C (-40 °F to +257 °F)

0.02 ℃ or better ±0.01 ℃/℃ change from 25 ℃

80

Physical Specification

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Operational Range*		
Case Dimensions		
Height		
Width		
Depth		
Weight		

IP68 water-proof (see notes) -40 °C to +85 °C (-40 °F to +185 °F)

34mm / 1.34"
59mm / 2.32"
80mm / 3.15"
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.

Notes

Battery Type

Tekcell SBAA02P: SAFT LS14250 or LST14250

The logger will operate with other 1/2AA 3.6V Lithium (Li-SOCI2) batteries but performance cannot be guaranteed.

Before replacing the battery the data logger must be stopped.

When replacing the battery, wait at least one minute after removing the old battery before fitting the new one

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

•• Iabel 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 passed over the label, the green LED will light briefly to indicate that the unit has been activated. Once activated, the green LED will the second flash every four seconds to indicate that the logger is recording.

Calibration

100

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.

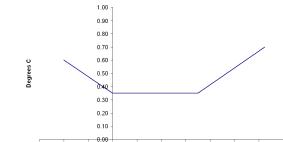
A certificate of calibration, traceable to a national standard, can be supplied for an additional charge either at the point of purchase, or if the unit is returned for a service calibration.

Approvals

Gemini Data Loggers (UK) Ltd. operates a Business Management System which conforms to ISO 9001 and ISO 14001.



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Temperatur

The graph below is the accuracy of the TGP-4510 when used

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Replacement Interval Annually

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





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

The following software:

SWCD-0040: Tinytag Explorer software

and a

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

The SWCD-0040 software and CAB-0007-USB cable can be ordered together in a pack using the part number SWPK-7-USB.

Further Related Products

SER-9500: Tinytag Data Logger Service Kit ACS-6000: Trigger Start Magnet

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