



Tinytag Plus 2
Dual Channel
Internal/External
Temperature
(-40 to +85°C/-40 to +125°C)

TGP-4510

Issue 1 19th August 2005 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 is 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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Features

Total Reading Capacity 32,000 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; latchable

Reading Specification

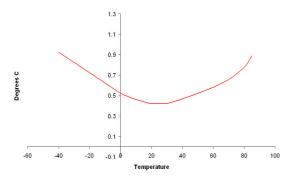
Internal Temperature

Reading Range -40°C to +85°C (-40°F to +185°F) 10K NTC Thermistor Sensor Type (Internally mounted)

25 mins to 90% FSD in moving air Response Time

Reading Resolution 0.01°C or better

Accuracy



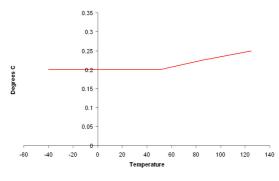
External Temperature

Logger Accuracy

Reading Range -40°C to +125°C (-40°F to +257°F) Sensor Type 10K NTC Thermistor (External probe)

Reading Resolution 0.02°C or better

Temperature Stability ±0.01°C/°C change from 25°C



^{*}The overall accuracy of the external channel will depend on the probe used with the unit.

Physical Specification

IP Rating IP68 water-proof (see notes) Operational Range* -40°C to +85°C (-40°F to +185°F) **Case Dimensions**

Height 34mm / 1.34" Width 59mm / 2.32' Depth 80mm / 3.15 Weight 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 SAFT LS14250 or 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.

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).

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) and is approved to EN61326:1998 with any standard leads or probes supplied.









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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 piece of software:

SWCD-0040: Tinytag Explorer software (version 4.2 or above recommended).

and a

CAB-0007: Tinytag PC Serial Download Cable

Further related products:

CAB-USB: USB to Serial Converter SER-9530: Tinytag Plus Service Kit ACS-6000: Trigger Start Magnet