



Tinytag Plus 2
Dual Channel
External Temperature (x2)
(-40 to +125°C/
-40 to +125°C)

**TGP-4520** 

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-4520 has two external probes and 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

















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

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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)

After n Readings

When full

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**

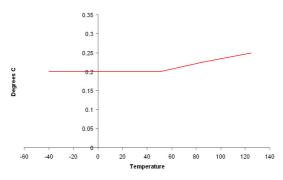
The following information applies to both channels.

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

Reading Resolution **Temperature Stability** Accuracy

0.02°C or better

±0.01°C/°C change from 25°C



The overall accuracy this unit will depend on the probe used.

# **Physical Specification**

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

Height 34mm / 1.34" Width 59mm / 2.32' 80mm / 3.15 Depth 110g / 3.9oz Weight

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

#### **Notes**

SAFT LS14250 or LST14250 3.6v **Battery Type** 

1/2AA 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

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 probes are fitted and is valid to a depth of 15m (50ft).

The different channels are identified by coloured rings around the probe connectors on the logger

## 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.





# **Required and Related Products**

To use this data logger you will also require:

Two of any 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 (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