



Tinytag Plus 2 Temperature Logger for 2 x Thermistor Probes (-40 to +125 C)

TGP-4520

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 (not included) 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















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Features

Stop Options

Total Reading Capacity 32,000 readings
Memory type Non Volatile
Trigger Start Magnetic Switch
Delayed Start Relative / Absolute
(up to 45 days)

When full

After n Readings

logging in minutes

Never (overwrite oldest data)

Reading Types Actual, Min, Max
Logging Interval 1 sec to 10 days
Offload While stopped or when

mode

Alarms 2 fully programmable; latchable

Reading Specification

The following information applies to both channels.

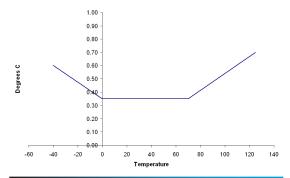
Reading Range -40°C to +125°C (-40°F to +257°F)

Sensor Type 10K NTC Thermistor (External probe)
Reading Resolution 0.02℃ or better

Temperature Stability ± 0.01 °C change from 25°C

Accuracy

The graph below is the accuracy of the TGP-4520 when used with a PB-5001, 5002 or 5003 probe.



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 Tekcell SBAA02P; SAFT LS14250 or LST14250

The logger will operate with other ½AA 3.6V Lithium (Li-SOCI2) batteries but performance cannot be guaranteed.

Replacement Interval A nnuall

Before replacing the battery the data logger must be st opped.

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 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.

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.

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 ENAC 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 Quality and Environmental Management Systems which conform to ISO 9001 and ISO 14001. The scope of these systems covers the manufacture, design and supply of data loggers and their associated software, accessories and services.











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Calibration

To use this data logger you will also require any two of the

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

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

