

Tinytag Plus 2 Temperature Logger for Thermistor Probe (-40 to +125°C)

TGP-4020

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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-4020 uses an external probe (not included) to record temperature in awkward to reach areas or applications where a fast time response is required.

Popular Applications

- Environmental monitoring
- Food processing and storage
- Pharmaceutical manufacture
- Logistics monitoring
- Museums and art galleries



Features

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





Features

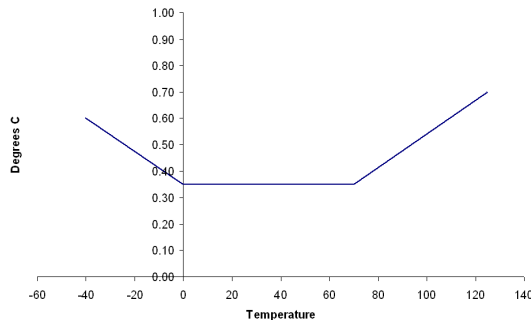
Total Reading Capacity	32,000 readings
Memory type	Non Volatile
Trigger Start	Magnetic Switch
Delayed Start	Relative / Absolute (up to 45 days)
Stop Options	When full After n Readings Never (overwrite oldest data)
Reading Types	Actual, Min, Max
Logging Interval	1 sec to 10 days
Offload	While stopped or when logging in minutes mode
Alarms	2 fully programmable; latching

Reading Specification

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

Accuracy

The graph below is the accuracy of the TGP-4020 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.

Approvals

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



Notes

Battery Type	Tekcell SBAA02P; SAFT LS14250 or LST14250
The logger will operate with other ½AA 3.6V Lithium (Li-SOCl ₂) batteries but performance cannot be guaranteed.	
Replacement Interval	Annually
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 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 passed over the label, the green LED will light briefly to indicate that the unit has been activated. Once activated, 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 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.

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-5003-1M5/3M/5M: Surface Thermistor Probe

The following software:

SWCD-0040: Tinytag Explorer software or

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-5000: Tinytag Alarm Box
- ACS-6000: Trigger Start Magnet