

Tinytag Plus 2 External Temperature For PT1000 3-Wire Probe (-200 to +100 °C)

TGP-4204

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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-4204 uses an external probe (not included) to record in cryogenic applications.

Popular Applications

- Food processing and storage
- Cryogenic storage
- Logistics monitoring



Features

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





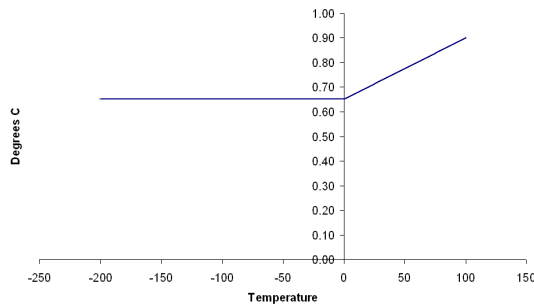
Features

| | |
|-------------------------------|--|
| 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 | -200 °C to 100 °C (-328 °F to 212 °F) |
| Sensor Type | 3-Wire PT1000 (external probe) |
| Reading Resolution | 0.01 °C or better |
| Temperature Stability | ±0.01 °C/°C change from 25 °C |
| Accuracy | |

The graph below is the accuracy of the TGP-4204 when used with a PB-7002 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.

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.

Notes

| | |
|-----------------------------|--|
| Battery Type | SAFT LS14250 or LST14250; Tekcell SBAA02P |
| | 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. |
| | 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.

Approvals

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



Required and Related Products

To use this data logger you will also require one of the following probes:

- PB-7002-1M5/3M: Standard 3-wire PT1000 Probe (-200 °C to +100 °C) or
- PB-7003-1M5/3M/5M: PT1000 Freezer Probe (-80 to +100 °C)

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