Tinytag Plus 2
Temperature Logger with Integral Sensor and for Thermistor Probe
(-40 to +85 °C/-40 to +125 °C)

TGP-4510

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 has an integral sensor and a connection for an external probe (not included) that makes the unit ideal for comparing ambient and process conditions.

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

Popular Applications
- Environmental monitoring
- Food processing and storage
- Pharmaceutical manufacture
- Logistics monitoring
- Museums and art galleries
**Features**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Reading Capacity</td>
<td>32,000 readings</td>
</tr>
<tr>
<td>Memory type</td>
<td>Non Volatile</td>
</tr>
<tr>
<td>Trigger Start</td>
<td>Magnetic Switch</td>
</tr>
<tr>
<td>Delayed Start</td>
<td>Relative / Absolute</td>
</tr>
<tr>
<td>Stop Options</td>
<td>When full</td>
</tr>
<tr>
<td></td>
<td>After n Readings</td>
</tr>
<tr>
<td>Reading Types</td>
<td>Actual, Min, Max</td>
</tr>
<tr>
<td>Logging Interval</td>
<td>1 sec to 10 days</td>
</tr>
<tr>
<td>Offload</td>
<td>While stopped or when</td>
</tr>
<tr>
<td></td>
<td>logging in minutes</td>
</tr>
<tr>
<td>Alarms</td>
<td>2 fully programmable; latchable</td>
</tr>
</tbody>
</table>

**Physical Specification**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Rating</td>
<td>IP68 water-proof (see notes)</td>
</tr>
<tr>
<td>Operational Range*</td>
<td>-40°C to +85°C (-40°F to +185°F)</td>
</tr>
<tr>
<td>Case Dimensions</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>34mm / 1.34”</td>
</tr>
<tr>
<td>Width</td>
<td>59mm / 2.32”</td>
</tr>
<tr>
<td>Depth</td>
<td>80mm / 3.15”</td>
</tr>
<tr>
<td>Weight</td>
<td>110g / 3.9oz</td>
</tr>
</tbody>
</table>

*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
- 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.
- Temperature Stability: ±0.01 °C / °C change from 25°C

**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.

**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-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

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-6000: Trigger Start Magnet