

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

TGU-4020

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E&OE

The Tinytag Ultra 2 data loggers are ideally suited to monitor interior applications where there is little or no moisture.

Tinytag Ultra 2 data loggers have a high reading accuracy and resolution, large memories, a fast offload speed and a low battery monitor.

The TGU-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

- Office and housing monitoring
- Pharmaceutical manufacture
- Dry food storage
- Museum display and repository
- Incubators



Features

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





Features

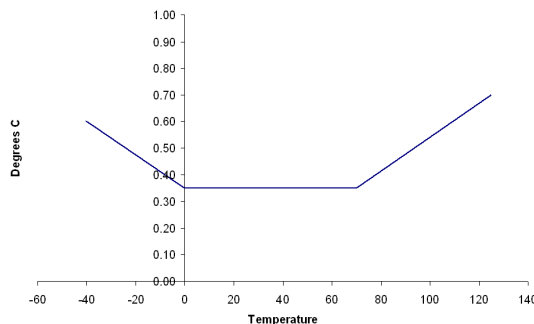
| | |
|-------------------------------|--|
| Total Reading Capacity | 32,000 readings |
| Memory type | Non Volatile |
| Delayed Start | Relative / Absolute (up to 45 days) |
| Stop Options | When full After n Readings Never (overwrite oldest data) |
| Reading Types | Actual, Min, Max |
| Logging Interval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

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 TGU-4020 when used with a PB-5001, 5002 or 5003 probe.



Notes

Battery Type Tekcell SBAA02P;
SAFT LS14250 or LST14250

The logger will operate with other ½AA 3.6V Lithium (Li-SOCl₂) 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 IP54 rating is valid only when the unit's connector cap and probe are fitted and the unit is orientated with it's hanging tab uppermost.

Physical Specification

| | |
|---------------------------|--------------------------------------|
| IP Rating | IP54 splash proof (see notes) |
| Operational Range* | -40 °C to +85 °C (-40 °F to +185 °F) |
| Case Dimensions | |
| Height | 72mm / 2.83" |
| Width | 60mm / 2.36" |
| Depth | 33mm / 1.30" |
| Weight | 55g / 1.94oz |

*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 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 data logger is approved to EN61326:1998 with any standard leads or probes supplied.

Gemini Data Loggers (UK) Ltd. operates a Quality Management System which conforms to ISO 9001. The scope of the system covers the manufacture, design and supply of data loggers and their associated software, accessories and services.



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

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-9520: Tinytag Ultra Service Kit