



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

TGU-4020

Issue 10 17th October 2014 E&OE 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



















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Features

Delayed Start

Stop Options

Total Reading Capacity 32,000 readings Memory type Non Volatile

Trigger Start Magnetic Switch (from SN 602211)

Relative / Absolute

(up to 45 days) 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

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)

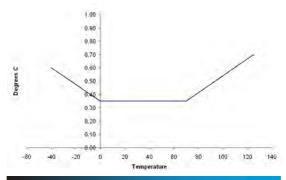
0.02°C or better Reading Resolution

±0.01°C/°C change from 25°C Temperature Stability

Accuracy

Alarms

The graph below is the accuracy of the TGU-4020 when used with a PB-5001, 5002 or 5003 probe.



Physical Specification

IP Rating IP54 splash proof (see notes) Operational Range* -40°C to +85°C (-40°F to +185°F)

Case Dimensions

72mm / 2 83' Height 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

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

Tekcell SBAA02P: **Battery Type**

SAFT LS14250 or LST14250

The logger will operate with other ½AA 3.6V Lithium (Li-SOCI2) 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 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.

Trigger Start

The trigger start option allows a unit to be set up as required and then started at a later time with a magnet. 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

Required and Related Products

To use this data logger you will also require a probe:

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

(Other types of probes are available, please see www.tinytag.info for further details).

The following piece of 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

For pricing or any further information, please contact Omni Instruments Ltd.



www.omniinstruments.com.au