Gemini DATA LOGGERS

Tinytag

DATA SHEET

# Tinytag Transit 2 Temperature Data Logger (-40 to +70°C)

## TG-4080

**Issue 5**
17th October 2014
E&OE

Designed with shipment monitoring in mind, the EN 12830 compliant Tinytag Transit 2 is a robust, lightweight temperature recorder.

The unit's low profile means that it can be easily slipped into product packaging, making it ideal for monitoring shipments of pharmaceuticals, foodstuffs and many other products.

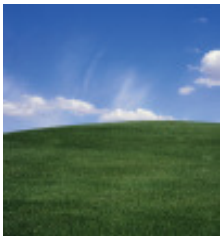
The TG-4080 can be downloaded using either a low cost USB cable, or an inductive pad that enables many loggers to be downloaded quickly without the need for removing lids and plugging in cables.

### Popular Applications

- Chill Chain Monitoring
- Pharmaceutical transportation
- Dry goods transportation
- Environmental monitoring


### Features

- Cost effective temperature recorder
- EN 12830 Compliant (S; T; C; D; 1)
- 8,000 reading capacity
- User-programmable logging interval
- 2 user-programmable alarms
- Delayed and trigger start options
- 3 stop options
- Splash proof case
- User-replaceable battery
- Cable or inductive offload



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## TG-4080

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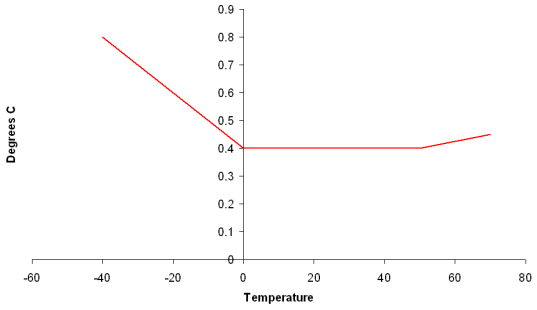
## Features

| | |
|---|---|
| **Total Reading Capacity** | 8,000 readings |
| **Memory type** | Non Volatile |
| **Trigger Start** | Magnetic Switch |
| **Delayed Start** | Relative / Absolute (up to 45 days) |
| **Stop Options** | When full<br>After n Readings<br>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 +70°C (-40°F to +158°F) |
| **Sensor Type** | 10K NTC Thermistor (Internally mounted) |
| **Response Time** | 10 mins to 90% FSD in moving air |
| **Reading Resolution** | 0.01°C or better |

**Reading Accuracy**




## 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.

## Physical Specification

| | |
|---|---|
| **IP Rating** | IP54 splash proof |
| **Operational Range*** | -40°C to +70°C (-40°F to +158°F) |
| **Case Dimensions** | |
| **Diameter** | 60.2mm / 2.38" |
| **Thickness** | 15.3mm / 0.6" |
| **Hanging Tab** | Extra 12mm / 0.47" |
| **Mounting Hole** | 6mm / 0.24" (diameter) |
| **Weight** | 28g / 0.99oz |

*The Operational Range indicates the physical limits to which the unit can be exposed, not the reading range over which it will record.

## Approvals

This logger complies to EN 12830, between -30 and +30°C, in the following categories:

S; T; C; D; 1

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

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## Notes

| | |
|---|---|
| **Battery Type** | Renata CR2325 |
| **Replacement Interval** | Annually* |

*If logging intervals of less than five seconds are used continuously, the battery life of the unit will be reduced and the battery will need to be replaced more frequently.

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 position of the unit's trigger start switch is indicated by the · · · markings on its base. The switch itself is positioned between the two sets of markings and when a magnet is passed between them, the green LED on the front of the logger will light briefly to indicate that the unit has been activated. Before the logger is "triggered" the green LED will be flashing once every eight seconds; after it will flash once every four seconds.

**LED Flash Patterns**

When logging, two status LEDs are visible through the lid of the unit. The flash patterns for these indicators are as follows:

| Flash Pattern | Indication |
|---|---|
| A green flash every 4 seconds | Logging |
| A green flash every 8 seconds | Waiting to Log (trigger or delayed start set) |
| A red flash every 4 seconds | Alarm limit breached |

## Required and Related Products

To use this data logger you will require:

SWCD-0040: Tinytag Explorer software

and an ACS-3030: USB Inductive Pad

or

CAB-0005-USB: Tinytag Transit / Talk USB Download Cable

**Further Related Products**

SER-9514: Tinytag Transit 2 Service Kit
CAB-0005: Tinytag Transit/Talk PC Serial Download Cable

data sheet