

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

### TG-4080

#### Issue 1

14th August 2009  
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



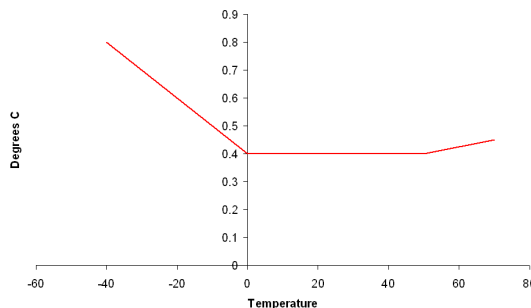


**Features**

<b>Total Reading Capacity</b>	8,000 readings
<b>Memory type</b>	Non Volatile
<b>Trigger Start</b>	Magnetic Switch
<b>Delayed Start</b>	Relative / Absolute (up to 45 days)
<b>Stop Options</b>	When full After n Readings Never (overwrite oldest data)
<b>Reading Types</b>	Actual, Min, Max
<b>Logging Interval</b>	1 sec to 10 days
<b>Offload</b>	While stopped or when logging in minutes mode
<b>Alarms</b>	2 fully programmable; latching

**Reading Specification**

<b>Reading Range</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Sensor Type</b>	10K NTC Thermistor (Internally mounted)
<b>Response Time</b>	10 mins to 90% FSD in moving air
<b>Reading Resolution</b>	0.01 °C or better
<b>Reading Accuracy</b>	



**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.

**Physical Specification**

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

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.

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.



**Notes**

**Battery Type** Renata CR2430

**Replacement Interval** Annually\*

\*If deployed for long periods, the logger's battery should be replaced annually to prevent the loss of data during a recording run. If the logger is being used frequently, the battery should be changed when prompted by a low battery warning from the Tinytag Explorer software.

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 position of the unit's trigger start switch is indicated by the . . . markings on its base. The switch itself is positioned between these two sets of markings. When a magnet is passed between the two, the green LED will light until the magnet is removed to indicate that the unit has been activated.

**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

data sheet