

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

TG-4080

Issue 3
1st April 2011
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.

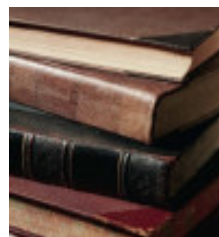
Popular Applications

- 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





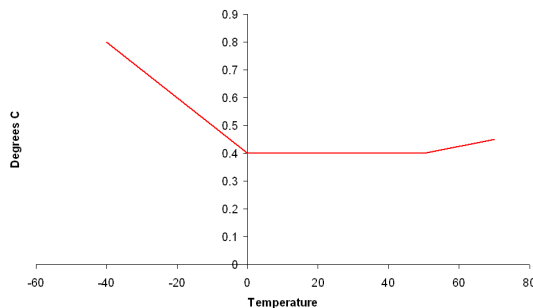
Features

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 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; latching

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 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

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

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 Quality and Environmental Management Systems which conform to ISO 9001 and ISO 14001. The scope of these systems covers the manufacture, design and supply of data loggers and their associated software, accessories and services.



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 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