Gemini
DATA LOGGERS

Tinytag

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

TG-4080

Issue 6
6th March 2015
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
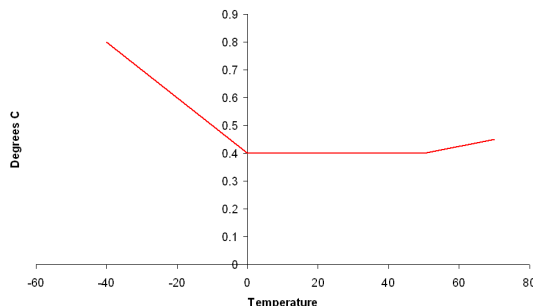- User-replaceable battery
- Cable or inductive offload

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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; latchable

Reading Specification

Reading Range	-40℃ to +70℃ (-40℉ to +158℉)
Sensor Type	10K NTC Thermistor
	(Internally mounted)
Response Time	10 mins to 90% FSD in moving air
Reading Resolution	0.01℃ 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℃ to +70℃
	(-40℉ to +158℉)
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℃, 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 a copy of the Tinytag Explorer software and a USB Inductive pad or download cable. These are supplied in packs as follows:

SWPK-3-USB: Software & USB Inductive Pad Pack <u>or</u>
SWPK-5-USB: Software & USB Download Cable Pack

Starter and Multi-Packs

You can also purchase this logger in a starter pack, containing one data logger, software and cable, or in a discounted 5-pack.

TG-4080-SPK: Tinytag Transit 2 Starter Pack
TG-4080-X5: Tinytag Transit 2 5-Pack

Further Related Products

SER-9514: Tinytag Transit 2 Service Kit
SWCD-0040: Tinytag Explorer Software
ACS-3030: USB Inductive Pad
CAB-0005-USB: USB Download Cable

data sheet