



#### Features

Memory Size : 8k (Non-volatile)  
No. of Readings : 7900  
Resolution : 8 bit  
Delayed Start : Relative / Actual  
up to 45 days  
Stop Options : When Full  
After n Readings  
Never (Wrap around)  
Reading Types : Actual, Min, Max.  
Logging Interval : 1 sec to 10 days  
Offload : While stopped or  
when logging in  
minute multiples  
Alarms : Two, fully  
Programmable  
Functional Range : -40°C to +85°C /  
-40°F to +185°F  
IP Rating : IP68 waterproof  
Battery Life : Up to 5 years

#### Sensor Details

Range : -40°C to +85°C /  
-40°F to +185°F  
Sensor Type : 10k NTC Thermistor  
(Encapsulated)  
Sensor location : Internally mounted  
Response Time : 25 min to 90% (air)  
90 s to 90% (water)  
Approximate Times.  
Sensor accuracy :  $\pm 0.2^{\circ}\text{C}$  /  $\pm 0.36^{\circ}\text{F}$   
From 32°F to 158°F/  
0°C to 70°C  
Resolution :  $0.4^{\circ}\text{C}$  at  $+25^{\circ}\text{C}$  /  
 $0.72^{\circ}\text{F}$  at  $+77^{\circ}\text{F}$

#### Mechanical Data

Case Style : IP68 Style, Red

##### Case Dimensions

Height : 34mm / 1.34  
Width : 51mm / 2.05  
Depth : 80mm / 3.15  
Weight : 110g / 3.9 oz.

#### Notes:

Battery replacement recommended every 2 years. It must only be replaced in a non-hazardous area, with Saft LS14250 3.7V 1/2AA Lithium cells. Stop the unit logging before replacing the battery.

\*Functional Range describes the range over which the logger will function, **not** the range over which it is I.S. approved.

#### Approvals

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) this device must accept any interference received, including interference that may cause undesired operation.

This product is manufactured by Gemini Data Loggers (UK) Ltd. to EN ISO 9002 part 2 (Certificate No. 6134), and is CE approved to EN50081 part 1:1992 and EN50082 part 1 and 2:1992/95 with any standard leads or probes supplied.



I.S. Approved to:  
**EEx ia IIC**  
**T4** ( $T_{\text{amb}} = 40^{\circ}\text{C}$ )  
**T3** ( $T_{\text{amb}} = 75^{\circ}\text{C}$ )



NAMAS traceable calibration certificates are available on individual units.

#### Special Notes

This logger forms part of the Intrinsically Safe range.

**This range of logger must only be used in accordance with SCS No. Ex 96D2069X**, a copy of which is supplied with the logger and is available on request.  
Connections for launching and downloading, etc. may only be made in non-hazardous areas.

The IP68 waterproof rating is only valid to 50ft (15 m) and only when the connector cap is securely fitted to the connector.

#### Interface Information and Related Products

##### To use your Tiny Data Logger you will require:

Tinytag interface cable (CAB-0007), PC with GLM for Windows™ (SW-0009) or Easyview for Windows 95™ (SW-0500); or Psion handheld computer, with Tinylink version 2.0 or above (SW-1101) and suitable cable (See Tinylink Data Sheet).

##### Further Related Products:

SER-9531 Tinytag I.S. Service Kit including battery and seal  
TGIS-0020 Tinytag Intrinsically Safe Range G with external sensor probe for extended range, flexibility and faster response time  
TGIS-0304 Tinytag Intrinsically Safe Relative Humidity.

#### Applications

Hazardous areas