Gemini Data Sheet

Tinytag I.S. Temp. Range G Standard Probe

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TGIS-0020
Issue 3: 31st January 2000
E&OE

Mechanical Data

Case Style : IP68 Style, Red

Case Dimensions
Height : 34mm / 1.34
Width : 59mm / 2.32
Depth : 80mm / 3.15
Weight : 110g / 3.9 oz.

Probe Dimensions
Probe Dia : 5mm / 0.19
Probe Length : 150mm / 5.9
Lead Length : 3m / 118

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

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 sensor range over which it will record or is I.S. approved.

Sensor Details

Range : -40°C to +125°C / -40°F to +257°F
Sensor Type : 10k NTC Thermistor
Sensor location : Stainless Steel probe
Response Time : 45 s to 90% (Air) 20 s to 90% (water)
Sensor accuracy : ± 0.2°C / ± 0.36°F From 32°F to 158°F/ 0°C to 70°C
Resolution : 0.4°C at +25°C / 0.72°F at +77°F

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_{amb} = 40°C)
T3 (T_{amb} = 75°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.
Probe may only be replaced by one of the same type.

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

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:
PB-4724   Replacement Probe.
SER-9531   Tinytag I.S. Service Kit including battery and seal
TGIS-0017   Tinytag Intsinsically Safe Range G with internal sensor, for a compact solution
TGIS-0304   Tinytag Intsinsically Safe Relative Humidity.

Applications

Hazardous Areas

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