



Features

Memory Size : 32k (Non-volatile)
No. of Readings : app. 16000 / channel
Resolution : 8 bit
Trigger Start : Magnetic reed switch
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 : 2 fully Programmable
Functional Range : -20°C to +85°C /
-4°F to +185°F
IP Rating : IP68 Waterproof
(See special notes)
Battery Life : Up to 4 years

Notes:

Battery replacement is recommended every 2 years. It may be replaced with Saft 3.7V 1/2AA Lithium cells. Stop the unit logging before replacing the battery. Functional Range describes the limits to which the datalogger may be subjected, **not** the range over which it will record.

Sensor Details

CHANNEL 1: Temperature Range H

Range : -30°C to +50°C /
-22°F to +122°F
Sensor Type : 10k NTC Thermistor
(Encapsulated)
Sensor location : Internally Mounted
Response Time : 20 min to 90% (air)
Sensor accuracy : $\pm 0.2^\circ\text{C}$ / $\pm 0.36^\circ\text{F}$
From 0°C to 50°C /
32°F to 122°F
Resolution : 0.25°C at 0°C /
0.45°F at 32°F

CHANNEL 2: Relative Humidity

Range : 0 to 100% RH
Sensor Type : Capacitive
Sensor Accuracy : $\pm 3\%$ at 25°C / 77°F
Sensor Location : On side of unit
Temp. Dependency : Low
Response Time : 10 sec to 90%
(Non-condensing)
Resolution : Better than 0.5%RH

Mechanical Data

Case Style : IP68 Style
Case Dimensions
Height : 34mm / 1.34
Width : 57mm / 2.25
Depth : 80mm / 3.15
Weight : 110g / 3.9 oz.

Special Notes

When using the units at low temperatures, condensation may form. Before opening the case, allow the units to reach room temperature. The IP68 rating **does not** include the RH sensor, is only valid to a depth of 50ft (15m) and only when the connector cap is securely fitted. The RH sensor has excellent long-term performance and can be wetted without damage, however accuracy will be temporarily impaired and it should be allowed up to 30 minutes to recover.

The sensor will resist small amounts of the following chemicals: Formaldehyde, Ammonia, Carbon Monoxide, Sulfur Dioxide, Ethylene Oxide, Hydrogen Chloride, Hydrogen Fluoride, Hydrogen Peroxide, Nitrogen Dioxide, Methyl Chloride, Chlorine, Freon, Methanol, Ethanol, Isopropanol and ozone. It also offers resistance to ultraviolet rays.

Salt solutions may cause permanent damage as crystals forming within the porous layers affect moisture levels there.

The sensor may be cleaned with de-ionised water or pure isopropanol, but **not with abrasive detergents**, as scratches or residue will affect the accuracy.

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.



NAMAS traceable calibration certificates are available on individual units.

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 3.0 or above (SW-1101) and suitable cable (See Tinylink Data Sheet).

Further Related Products:

ACS-6000 Trigger Start Magnet
SER-9532 Tinytag Plus Service Kit including battery, seal and silica gel pack.
TGP-1510 Tinytag Plus Temperature Range H internal / Range G for Standard Probe. 2 channel temperature logger

Applications

Heating and Ventilation Greenhouse monitoring Horticulture Museums and archives.