Gemini Data Sheet

Mechanical Data

Case Style : IP68 Style

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

Sensor dimensions
Length : 77mm / 3
Width : 64mm / 2.5
Max thickness : 9mm / 0.35
Cable length : 5m / 16 5

Features

Memory Size : 16k (Non-volatile)
No. of Readings : 15900 (approx)
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 : 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 may be replaced with Saft 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.

Sensor Details

Range : 0 to 100 units
Sensor Type : Electrical impedance grid (Artificial leaf) Supplied un-coated.
Interchangeability
Between loggers : ± 2 units

Sensor Notes:
Measurement units are arbitrary. The actual meaning is dependent on many factors, including impurities in the water, and any coating which may need to be added to suit a particular application. Further information is given in the manual and in the following paper:

Gillespie, T.J. and Kidd, G.E. 1978. Sensing duration of leaf moisture retention using electrical impedance grids Can. J. Plant Sci. 58:179-187

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 1:1992 with any standard leads or probes supplied.

Special Notes

When using the units at low temperatures, condensation may form. Before opening the case for any reason, allow the units to reach room temperature.
The IP68 rating is only valid to a depth of 50ft (15m), and only when the connector cap and sensor are both securely fitted.

This logger is not suitable for use with Re-educator software.

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:
ACS-6000   Trigger Start Magnet
SER-9532   Tinytag Plus Service Kit including battery, seal and silica gel pack.
TGP-0901   Tinytag Plus Rain Gauge Logger

Applications

Farms and orchards
Tea and tobacco drying