Gemini Data Sheet

Mechanical Data

Case Style : IP65 noryl
Colour : Blue/orange food grade

Diameter : 60mm / 2.36"
Length : 88mm / 3.46"
Width : 65mm / 2.56"
Depth : 35mm / 1.38"
Weight : 85g / 3 oz.

Features

Memory Size : 32k (Non-volatile)
Display : 4 digits + indicators
No. of Readings : app. 15000 / channel
Resolution : 8 bit
Trigger Start : Magnetic reed switch
Delayed Start : Relative / Actual
up to 45 days
Stop Options : After n Readings,
When Full, Never
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 ➜ +70°C /
-4°F ➜ +158°F
IP Rating : IP65 (see notes)
Battery Life : Up to 3 years

Notes:
Battery replacement is recommended every 12 months. It may be replaced with 3.6V 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. The display may not be as clear at extremes of temperature.

Sensor Details

Sensor 1: Temperature Range H Int.
Range : -30°C ➜ +50°C /
-22°F ➜ +122°F
Sensor Type : 10k NTC Thermistor
(Internally mounted)
Typ. Response Time : 10 min to 90% (air)
Sensor Accuracy : ± 0.2°C / ± 0.36°F
From 0°C ➜ 50°C /
32°F ➜ 122°F
Logger Resolution : 0.25°C at 0°C /
0.45°F at 32°F
Display Resolution : 0.5°C / 1°F

Sensor 2: Relative Humidity
Range : 0 ➜ 100% RH
Sensor Type : Capacitive
Sensor Accuracy : ±3%RH at 25°C/77°F
Temp. Dependency : Low
Response Time : 10 sec to 90%
(Non-condensing)
Logger Resolution : 0.5%RH
Display Resolution : 0.5%RH

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 BS EN ISO 9001:2000 (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.

Special Notes

When using the units at low temperatures, condensation may form. Before opening the case, allow the units to reach room temperature. The IP65 rating **does not** include the RH sensor, and is only valid when the connector cap is securely fitted.

Tinyview has the ability to remind the user when calibration is due. The unit can be given a 6 monthly calibration service, which includes certificate, new battery and seals along with re-setting of the calibration reminder indicator to the next calibration due date.

The RH sensor has excellent long-term performance and can be wetted without damage, however the 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. It can be cleaned in de-ionised water or pure isopropanol, but **not abrasive detergents.** Surface scratches or residue will compromise the accuracy. Salt solutions may cause permanent damage as crystals within the porous layers affect moisture levels there.

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).

Further Related Products:
ACS-6000 — Trigger Start Magnet
SER-9550 — Tinyview Service Kit including battery and seal
TV-0020 — Tinyview Temperature Range G (-40°C to +125°C / -40°F to +257°F) for Standard Probe.