



Mechanical Data

Case Style : IP-68 Instrument
 Height : 82mm / 3.3"
 Width : 60mm / 2.6"
 Depth : 40mm / 1.6"
 Mounting holes : 4.2mm / 0.16"
 diameter
 70mm / 2.8"
 separation

Features

Memory Size : 16k (Non-volatile)
 No. of Readings : 7900 per channel
 (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 Range¹ : -20°C → +85°C /
 -4°F → +185°F
 IP Rating : IP68²
 Battery Life : Up to 3 years
 Offload Speed : Approx 30 Seconds
 Offload Method : Close Proximity

Notes:

¹ Functional Range describes the range over which the logger will function, **not** the sensor range over which it will record.

² Avoid wetting the RH sensor as residue following evaporation may alter calibration.

Sensor Details

Temperature Sensor

Range : -30°C → +85°C /
 -22°F → +185°F
 Sensor Type : 10k NTC Thermistor
 (Encapsulated)
 Sensor location : Externally mounted
 Response Time : ~15 min to 90%
 (in air)
 Sensor accuracy : ±0.2°C / ±0.36°F
 From 0°C → 70°C /
 32°F → 158°F
 Resolution : <1.5°, 70° → 85°C
 <0.7°, 45° → 60°C
 <0.5°, -18° → 45°C
 <0.8°, -30° → -18°C

Relative Humidity Sensor

Range : 0 → 100% RH
 Sensor Type : Capacitive
 Sensor Accuracy : ±3% at 25°C / 77°F
 Sensor Location : In base of unit
 Temp. Dependency : Low
 Response Time : 10 sec to 90%
 (Non-condensing)
 Resolution : <0.5% RH

Special Notes

When using the units at low temperatures, condensation may form. Before opening the case, allow the units to reach room temperature.

Battery replacement recommended every 2 years. We recommend using only batteries supplied through your Tinytag distributor.

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. It can be cleaned in de-ionised water or pure isopropanol, but **not abrasive detergents**. 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. Surface scratches or residue will compromise the accuracy. Salt solutions may also cause permanent damage as crystals forming within the porous layers affect moisture levels there.

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.



UKAS traceable calibration certificates are available on individual units.

Interface Information and Related Products

To use your Tinytag Data Logger you will require:

Tinytag Pad base station (ACS-3020), PC with GLM (SWCD-0009) or Easyview (SW-0500)

Further Related Products:

SER-9560 Tinytag Extra Service Kit including battery, seal and silica gel pack.