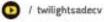


Termo higrómetro Para Intemperie GM-TGP4500









Tinytag Plus 2
Dual Channel
Temperature/Relative
Humidity
(-25 to +85 ℃/0 to 100% RH)

TGP-4500

Issue 13 9th August 2019 E&OE The Tinytag Plus 2 range of data loggers have a high reading resolution and accuracy and are housed in robust, waterproof (IP68 rated) cases that are designed for use in a wide range of outdoor and industrial applications.

The TGP-4500 is a self contained temperature and relative humidity data logger. This unit features a coated RH sensor that has good resistance to moisture and condensation, ensuring measurement reliability.

Popular Applications

- · Environmental monitoring
- Glass house and poly tunnel agriculture
- · Food processing and storage
- Pharmaceutical manufacture
- · Logistics monitoring
- Conservation Projects



Features

- Temperature and relative humidity recorder
- 32,000 reading capacity
- High accuracy
- High reading resolution
- Fast data offload
- · Robust, waterproof case
- Low battery monitor
- User-replaceable battery















Tinytag Plus 2 Dual Channel Temperature/Relative Humidity (-25 to +85 °C/0 to 100% RH)

TGP-4500

Issue 13: 9th August 2019 (E&OE)



Features

Total Reading Capacity 32,000 readings Memory type Non Volatile **Trigger Start** Magnetic Switch **Delayed Start** Relative / Absolute (up to 45 days) **Stop Options** When full After n Readings

Never (overwrite oldest data)

Reading Types Actual, Min, Max **Logging Interval** Offload

1 sec to 10 days While stopped or when

logging in minutes mode

Alarms 2 fully programmable; latchable

Reading Specification

Temperature

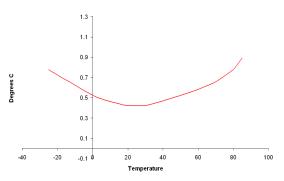
Reading Range -25 °C to +85 °C (-13 °F to +185 °F) Sensor Type 10K NTC Thermistor

(Internally mounted)

25 mins to 90% FSD in moving air **Response Time** 0.01 °C or better

Reading Resolution

Accuracy



Relative Humidity

Reading Range 0% to 100% RH Capacitive Sensor Type ±3.0% RH at 25 °C / 77 °F Accuracy **Reading Resolution** Better than 0.3% RH Externally mounted Sensor Location

Response Time 40 seconds to 90% FSD (current

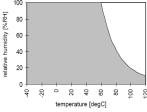
data loggers, from SN 613165)

RH Sensor Working Range

The working range for the RH sensor is shown in terms of

relative humidity / temperature limits.

Although the sensor will not fail beyond these limits, the accuracy will deteriorate.



Physical Specification

IP Rating IP68 water-proof (see notes) Operational Range* -25 °C to +85 °C (-13 °F to +185 °F)

Case Dimensions

34mm / 1.34" Height Width 57mm / 2.25' Depth 80mm / 3.15" Weight 110g / 3.9oz

*The Operational Range indicates the physical limits to which the unit can be exposed, not the reading range over which it will

Notes

The battery fitted in this product is a single cell containing less that 1g of lithium and meets the requirements of the UN Manual of Tests and Criteria, Part III, Subsection 38.3.

SAFT LS14250 **Recommended Battery Types**

Tekcell SBAA02P or Eve ER14250

The logger will operate with other ½AA 3.6V Lithium batteries but performance cannot be guaranteed.

Replacement Interval Annually

Before replacing the battery the data logger must be stopped.

When replacing the battery, wait at least one minute after removing the old battery before fitting the new one.

Data stored on the logger will be retained after a battery is replaced.

If used at low temperatures the data logger should be allowed to warm to room temperature before it is opened to avoid condensation forming inside the unit.

The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m (50ft). The IP68 rating does not apply to the unit's RH sensor.

The coated sensor used on this unit (current product, SN 613165 and above) provides good protection from moisture and condensation, but in some cases - where the sensor becomes saturated - readings may become unpredictable. Once the sensor has dried out, and provided no residue is left behind, the unit should return to normal reading within 30 minutes

Any dust, salts or residue that is allowed to build up on the RH sensor will affect the unit's reading accuracy.

The sensor may be cleaned with de-ionised water but not with pure isopropanol or abrasive detergents, as these may damage the coating on the sensor and effect its accuracy.

The RH sensor will resist small amounts of the following chemicals: formaldehyde, ammonia, carbon monoxide, sulphur 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.

The position of the unit's trigger start switch is indicated by the \cdots label on the back of the logger. When the "Wait until trigger event" option is selected in the Tinytag Explorer software, the green LED on the unit will flash once every eight seconds, indicating that the unit is waiting to log. When a magnet passed over the label, the green LED will light briefly to indicate that the unit has been activated. Once activated, the green LED will flash every four seconds to indicate that the logger is recording.



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Calibration

This unit is configured to meet Gemini's quoted accuracy specification during its manufacture.

We recommend that the relative humidity channel should be checked once every six months, and the temperature channel annually, against a calibrated reference meter.

A certificate of calibration, traceable to a national standard, can be supplied for an additional charge either at the point of purchase, or if the unit is returned for a service calibration.

Approvals

Gemini Data Loggers (UK) Ltd. operates a Business Management System which conforms to ISO 9001 and ISO 14001.



Required and Related Products

To use this data logger you will require the following software:

SWCD-0040: Tinytag Explorer software

and a

CAB-0007-USB: Tinytag Ultra/Plus/View USB Download Cable

The SWCD-0040 software and CAB-0007-USB cable can be ordered together in a pack using the part number SWPK-7-USB.

Further related products:

SER-9500: Tinytag Data Logger Service Kit ACS-6000: Trigger Start Magnet



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