



Tinytag Thermohygrometer (-20 to +50 ℃/5 to 95% RH)

TH-2500

Issue 5 17th October 2014 E&OE



The Tinytag Thermohygrometer is a hand held unit to take spot readings of Temperature and Relative Humidity.

Readings are communicated via a clear LCD display. Temperature can be displayed in Celsius or Fahrenheit in 0.1 degree steps.

The unit can also function as a data logger when used in conjunction with Tinytag Explorer and a PC download cable.

The batteries are user replaceable.

Popular Applications

- · Environmental monitoring
- Food processing and storage
- Pharmaceutical manufacture
- · Logistics monitoring
- Museums and art galleries

Features (General)

- Temperature and relative humidity meter/data logger
- Switch-able °C/°F Display
- · Low battery monitor
- User-replaceable battery

Features (When Used as a Data Logger)

- 32,000 reading capacity
- High accuracy
- High reading resolution
- Fast data offload















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Features

Total Reading Capacity 32.000 readings Memory type Non Volatile **Delayed Start** Relative / Absolute (up to 45 days) **Stop Options** When full

Never (overwrite oldest data)

After n Readings

Reading Types Actual, Min. Max Logging Interval 1 sec to 10 days Offload While stopped or when logging in minutes

mode

Alarms 2 fully programmable; latchable

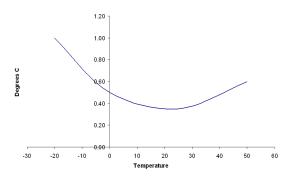
Reading Specification

Temperature

Reading Range -20 °C to +50 °C (-4 °F to +122 °F) 2 mins to 90% FSD in moving air Response Time **Reading Resolution** 0.05℃ or better

Display Resolution 0.1°C

Accuracy



Relative Humidity Reading Range

5% to 95% RH Accuracy ±3.0% RH **Reading Resolution** Better than 0.3% RH

Display Resolution 0.1%RH Sensor Location Integral

15 seconds* to 90% FSD in moving **Response Time**

air

Stability <1%/year typical

*The thermal response of humidity measurement is 2.5 minutes.

Calibration

This unit is configured to meet Gemini's quoted 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.

Physical Specification

IP54 IP Rating

-20°C to +50°C **Operational Range** (-4°F to +122°F)

Case Dimensions

Height (Including Probe) 195mm / 7.68" Width 65mm / 2.56" 23mm / 0.91" Depth Weight (Including batteries) 110g / 3.9oz

Notes

Battery Type 2 x 1.5V AA Alkaline Battery

Replacement Interval Annually

A low battery indicator will light when the unit's batteries are getting low.

Before replacing the battery the data logger must be stopped.

Data stored on the logger will be retained after the batteries are

If the unit is used below 0 ℃ check that any replacement AA batteries used are rated to the temperature you require.

As well as turning the unit's display on and off, the push button on the front of the unit can be used to change the display from degrees Celsius to degrees Fahrenheit.

If moisture forms on the unit's RH sensor readings will 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 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 or compressed air.

The RH sensor will resist small amounts of the following chemicals and substances: formaldehyde, carbon monoxide, sulphur dioxide, ethylene oxide, hydrogen chloride, hydrogen fluoride, hydrogen peroxide, nitrogen dioxide, methyl chloride, chlorine, freon, methanol, ethanol, isopropanol, ozone, diesel, automotive preservative, gasoline, motor oil, denatured alcohol, automotive solvent, window detergent, anti-freeze, bio-diesel, de -preservative agent, cleaner solvent, and battery acid. It also offers resistance to ultraviolet rays

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

Approvals

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



Related Products

When used as a data logger the following accessories will be required:

SWCD-0040: Tinytag Explorer software and a

CAB-0007-USB Tinytag/Tinyview 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.