



# Tinytag View 2 Logger with Temperature/Relative Humidity Probe (-25 to +85°C/0 to 100% RH)

Tinytag View 2s are all housed in attractive IP65 cases and have integral displays. All feature high reading accuracy and resolution, large memories, a fast offload speed and a low battery monitor.

The TV-4505 has a temperature and relative humidity probe with a 1.5m cable length. This unit features a coated RH sensor that has good resistance to moisture and condensation, ensuring measurement reliability.

TV-4505

Issue 8 9th August 2019 E&OE

## **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
- LCD display of current readings
- 30,000 reading capacity
- High accuracy
- · High reading resolution
- Fast data offload
- Splash-proof case
- Low battery monitor
- User-replaceable battery



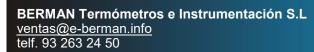
















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#### **Features**

**Total Reading Capacity** 30,000 readings Non Volatile Memory type Display 4 digits + indicators **Display Modes** °C or °F / %RH **Display Refresh Rate** Every 2 seconds

(alternating temperature/humidity)

**Trigger Start** Magnetic Switch Relative / Absolute **Delayed Start** (up to 45 days) **Stop Options** When full

> After n Readings Never (overwrite oldest data)

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

mode

**Alarms** 2 fully programmable; latchable

## **Physical Specification**

IP65 splash proof (see notes) IP Rating

**Combined Weight** 150g / 5.29oz

Logger

Operational Range\* -25°C to +70°C

**Case Dimensions** 

Diameter 60mm / 2.36" Length 90mm / 3.54" Width 77mm / 3.03" Depth 35mm / 1.38"

Probe

Operational Range\* -25°C to +85°C

Probe Dimensions

Length 70mm / 2.76" Diameter 8mm / 0.31" Cable Length 1.5m / 59.06"

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

## **Reading Specification**

#### Temperature

Reading Range -25°C to +85°C (-13°F to 185°F)

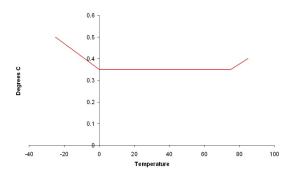
10K NTC Thermistor Sensor Type (external probe)

Response Time 3 mins to 90% FSD in moving air

0.02°C or better Logger Resolution **Display Resolution** 0.1°C or 0.1°F

0.005°C/°C Change from 25°C Temperature Stability

#### Logger Accuracy **Relative Humidity**



Reading Range 0 to 100% RH Sensor Type

Capacitive (external probe) ±3.0% RH at 25°C (77°F) Reading Accuracy **Reading Resolution** Better than 0.3% RH

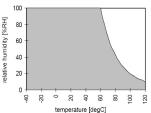
**Display Resolution** 0.1% RH

Response Time 40 seconds to 90% FSD (current data loggers, from SN 619201)

#### **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





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#### **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.

**Recommended Battery Types** 

SAFT LS14250. 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.

After removing an old battery from a logger, wait five minutes before inserting the new one.

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

The clarity of the display may change at extremes of temperature.

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 IP65 rating is valid only when the unit's connector cap is securely fitted

The coated sensor used on this unit (current product, SN 619201 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 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.

### Calibration

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

As the data logger and its probe are supplied as a matched pair, probes and units are not interchangeable

We recommend that the calibration of this unit should be checked every six months 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



## **Required and Related Products**

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

SWCD-0040: Tinytag Explorer software

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

