

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

### TV-4505

#### Issue 1

30th March 2007  
E&OE

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

The TV-4505 has temperature and RH sensors mounted on a 1M lead and is ideal for measuring temperature and RH in difficult to access areas such as packing cases containing works of art.

#### Popular Applications

- Document storage monitoring
- Museum monitoring
- Climate monitoring



#### 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

<b>Total Reading Capacity</b>	30,000 readings
<b>Memory type</b>	Non Volatile
<b>Display</b>	4 digits + indicators
<b>Display Modes</b>	°C or °F / %RH
<b>Display Refresh Rate</b>	Every 2 seconds (alternating temperature/humidity)
<b>Trigger Start</b>	Magnetic Switch
<b>Delayed Start</b>	Relative / Absolute (up to 45 days)
<b>Stop Options</b>	When full After n Readings Never (overwrite oldest data)
<b>Reading Types</b>	Actual, Min, Max
<b>Logging Interval</b>	1 sec to 10 days
<b>Offload</b>	While stopped or when logging in minutes mode
<b>Alarms</b>	2 fully programmable; latching

## Physical Specification

<b>IP Rating</b>	IP65 splash proof (see notes)
<b>Combined Weight</b>	150g / 5.29oz

### Logger

<b>Operational Range*</b>	-25°C to +70°C
<b>Case Dimensions</b>	
<b>Diameter</b>	60mm / 2.36"
<b>Length</b>	90mm / 3.54"
<b>Width</b>	77mm / 3.03"
<b>Depth</b>	35mm / 1.38"

### Probe

<b>Operational Range*</b>	-25°C to +85°C
<b>Probe Dimensions</b>	
<b>Length</b>	70mm / 2.76"
<b>Diameter</b>	8mm / 0.31"
<b>Cable Length</b>	1.5m / 59.06"

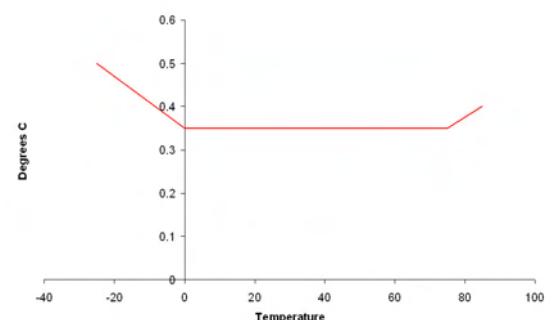
\*The Operational Range indicates the physical limits to which the unit can be exposed, not the reading range over which it will record.

## Reading Specification

### Temperature

<b>Reading Range</b>	-25°C to +85°C (-13°F to 185°F)
<b>Sensor Type</b>	10K NTC Thermistor (external probe)
<b>Response Time</b>	3 mins to 90% FSD in moving air
<b>Logger Resolution</b>	0.02°C or better
<b>Display Resolution</b>	0.1°C or 0.1°F
<b>Temperature Stability</b>	0.005°C/°C Change from 25°C

### Logger Accuracy



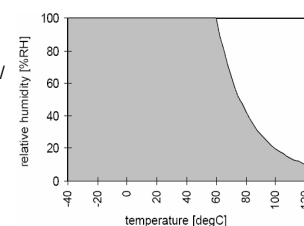
### Relative Humidity

<b>Reading Range</b>	0 to 100% RH
<b>Sensor Type</b>	Capacitive (external probe)
<b>Response Time</b>	5 sec to 90% FSD in still air
<b>Reading Resolution</b>	Better than 0.3% RH
<b>Display Resolution</b>	0.1% RH
<b>Reading Accuracy</b>	±3.0% at 25°C (77°F)

### 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.



data sheet

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## Notes

**Battery Type** Tekcell SBAA02P;  
SAFT LS14250 or LST14250

The logger will operate with other ½AA 3.6V Lithium (Li-SOCI2) batteries but performance cannot be guaranteed.

**Replacement Interval** Annually

Before replacing the battery the data logger must be stopped.

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 being opened to avoid condensation forming inside the unit. Do not use the unit in a high humidity environment.

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

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