



DATA SHEET

# Tinytag View 2 Temperature/Relative Humidity Logger (-25 to +50 °C/0 to 100% RH) Grey Case

# TV-4501

Issue 6 17th October 2014 E&OE Tinytag View 2s are a range of data loggers with displays. Featuring high reading accuracy and resolution, large memories, a fast offload speed and a low battery monitor, these units are housed in splash-proof (IP65 rated) cases.

The TV-4501 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 in applications where a visual display of temperature and humidity is required in addition to data logging.

This unit is an unobtrusive grey colour for use in museums and art galleries.

## **Popular Applications**

- Museums and art galleries
- Document and archive monitoring
- Environmental 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	
Total Reading Capacity	30,000 readings
Memory type	Non Volatile
Display	4 digits + indicators
Display Modes	℃ or ℉ / %RH
Display Refresh Rate	Every 2 seconds
	(alternating temperature/humidity)
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	1 sec to 10 days
Offload	While stopped or when
	logging in minutes
	mode
Alarms	2 fully programmable; latchable

## **Physical Specification**

IP Rating	IP65 splash proof (see notes)
Operational Range*	-25 ℃ to +70 ℃
Case Dimensions	
Diameter	60mm / 2.36"
Length	90mm / 3.54"
Width	65mm / 2.56"
Depth	35mm / 1.38"
Weight	85g / 3oz

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

#### Notes

#### **Battery Type**

Tekcell SBAA02P; SAFT LS14250 or LST14250

The logger will operate with other 1/2AA 3.6V Lithium (Li-SOCI2) 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 612487 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.

### Calibration

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

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.

**Reading Range** Sensor Type **Response Time** Logger Resolution **Display Resolution** 

Temperature

**Reading Specification** 

-25 ℃ to +50 ℃ (-13 ℃ to 122 ℃) 10K NTC Thermistor (Integral) 10 mins to 90% FSD in moving air 0.02 ℃ or better 0.1 °C or 0.1 °F





Tempe ture

#### **Relative Humidity**

**Reading Range** Sensor Type Accuracy **Reading Resolution Response Time** 

**Display Resolution** 

0 to 100% RH Capacitive (Integral) ±3.0% RH at 25 °C / 77 °F Better than 0.3% RH 40 seconds to 90% FSD (current data loggers, from SN 612487) 0.1% RH

#### **RH Sensor Working Range**



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#### 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-5000: Tinytag Alarm Box ACS-6000: Trigger Start Magnet