



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

TV-4505

Issue 5 17th June 2011

E&OE

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.

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





UK / Europe Office Tel +44 (0)845 9000 601 Fax +44 (0)845 9000 602 info@omni.uk.com www.omniinstruments.co.uk Australia / Asia Pacific Office Tel +61 (0)282 442 363 Fax +61 (0)294 751 278 info@omniinstruments.com.au www.omniinstruments.com.au

USA / Canada Office Tel +1-866-849-3441 Fax +1-866-628-8055 info@omniinstruments.net www.omniinstruments.net



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

TV-4506

Issue 5 : 17th June 2011 (E&OE)



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 Specific	ation	
IP Rating	IP65 splash proof (see notes)	
Combined Weight	150g / 5.29oz	
••••••g		
Logger		
Operational Range*	-25 ℃ to +70 ℃	
Case Dimensions		
Diameter	60mm / 2.36"	
Length	90mm / 3.54"	
Width	77mm / 3.03"	
Depth	35mm / 1.38"	
Probe		
Operational Range*	-25 ℃ to +85 ℃	
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 record.

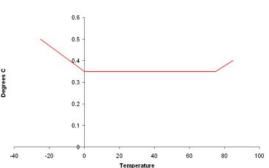
Reading Specification

emperature

eading Range	-25 °
ensor Type	10K
	(ext
esponse Time	3 m

Logger Resolution Display Resolution Femperature Stability -25 ℃ to +85 ℃ (-13 ℉ to 185 ℉) 10K NTC Thermistor (external probe) 3 mins to 90% FSD in moving air 0.02 ℃ or better 0.1 ℃ or 0.1 ℉ 0.005 ℃/℃ Change from 25 ℃

Logger Accuracy



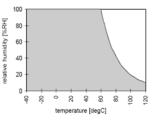
elative Humidity

Reading Range Sensor Type Reading Accuracy Reading Resolution Display Resolution Response Time 0 to 100% RH Capacitive (external probe) ±3.0% RH at 25 ℃ (77 °F) Better than 0.3% RH 0.1% RH 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.





UK / Europe Office Tel +44 (0)845 9000 601 Fax +44 (0)845 9000 602 info@omni.uk.com www.omniinstruments.co.uk Australia / Asia Pacific Office Tel +61 (0)282 442 363 Fax +61 (0)294 751 278 info@omniinstruments.com.au www.omniinstruments.com.au USA / Canada Office Tel +1-866-849-3441 Fax +1-866-628-8055 info@omniinstruments.net www.omniinstruments.net



Tinyta

Tinytag View 2 Temperature/Relative Humidity Logger Probe (-25 to +85 °C/0 to 100% RH) TV-4506

Issue 5 : 17th June 2011 (E&OE)

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 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 UKAS traceable certificate of calibration can be supplied for an additional charge either at the point of purchase, or if the unit is returned for a Service Calibration.

Approvals

This equipment complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause any harmful interference, and (2) the device must accept any interference received, including interference that may cause undesired operation.

Gemini Data Loggers (UK) Ltd. operates Quality and Environmental Management Systems which conform to ISO 9001 and ISO 14001. The scope of these systems covers the design, manufacture and servicing of data logging and associated equipment, including software.



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

Further related products:

CAB-0007: Tinytag Ultra/Plus/View Serial Download Cable SER-9500: Tinytag Data Logger Service Kit ACS-5000: Tinytag Alarm Box ACS-6000: Trigger Start Magnet

ita sheet

UK / Europe Office Tel +44 (0)845 9000 601 Fax +44 (0)845 9000 602 info@omni.uk.com www.omniinstruments.co.uk Australia / Asia Pacific Office Tel +61 (0)282 442 363 Fax +61 (0)294 751 278 info@omniinstruments.com.au www.omniinstruments.com.au

USA / Canada Office Tel +1-866-849-3441 Fax +1-866-628-8055 info@omniinstruments.net www.omniinstruments.net