



Tinyview Plus
Dual Channel External
Temperature/Relative
Humidity (Grey Case)
(-30 to +50°C/0 to 100% RH)

TV-1506

Issue 1 16th December 2004 E&OE With an external probe for both temperature and relative humidity, this logger is ideally suited to applications where access is limited or where the logger needs to be unobtrusive.

The TV-1506 is a grey cased version of the popular TV-1505 data logger and has been designed specifically for use in museums and art galleries where conditions need to be monitored and the logging system needs to be inconspicuous.

In addition to logging up to 32,000 readings, current values of temperature and humidity are shown on the LCD display. The complete assembly is manufactured from food grade materials and is splash proof.

Applications

- · Museum display and repository
- Environmental monitoring
- Building monitoring
- Wall cavity monitoring
- Food storage and transport
- Drying environments

Features

- Temperature and relative humidity recorder with sensors mounted on a remote probe
- LCD display of current readings
- 32,000 reading capacity
- User programmable logging interval
- 2 user programmable alarms
- Delayed and trigger start options
- 3 stop options
- Splash proof case
- User replaceable battery

















Tinyview Plus Dual Channel External Temperature/Relative Humidity (Grey Case, -30 to +50°C/0 to 100% RH)

TV-1506

Issue 1: 16th December 2004 (E&OE)



Features

Stop Options

Total Reading Capacity
Memory type
Display
Trigger Start
Delayed Start
Delayed Start
Magnetic Switch
Relative / Absolute
(up to 45 days)

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

Case Material Noryl

IP Rating IP65 splash proof (see notes)

Combined Weight 150g / 5.29oz

Logger

 $\begin{tabular}{ll} \textbf{Operational Range*} & -30^{\circ}\text{C to } +70^{\circ}\text{C } (-22^{\circ}\text{F to } +158^{\circ}\text{F}) \\ \end{tabular}$

Case Dimensions

 Diameter
 60mm / 2.36"

 Length
 84mm / 3.31"

 Width
 76mm / 2.99"

 Depth
 35mm / 1.38"

Probe

Operational Range* -40°C to +85°C (-40°F to 185°F)

Probe Dimensions

 Length
 55mm / 2.17"

 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

Temperature

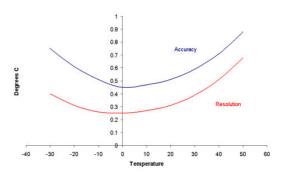
Reading Range -30°C to +50°C (-22°F to +122°F)

Sensor Type 10K NTC Thermistor

(external probe)

Response Time 3 mins to 90% FSD in moving air

Reading Resolution and Overall Accuracy



Display Resolution 0.5°C (1°F)

Relative Humidity

Reading Range 0% to 100% RH

 Sensor Type
 Capacitive (external probe)

 Response Time
 5 sec to 90% FSD in still air

 Reading Resolution
 Better than 0.5%RH

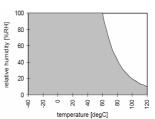
Display Resolution 0.5% RH

Sensor Accuracy ±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.







Tinyview Plus Dual Channel External Temperature/Relative Humidity (Grey Case, -30 to +50°C/0 to 100% RH)

TV-1506

Issue 1: 16th December 2004 (E&OE)



Notes

SAFT I ST14250 3 6v 1/2AA **Battery Type**

Lithium Cell

Replacement Interval

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, which does not include the unit's probe, is valid only when the unit's connector cap is securely fitted.

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 pure isopropanol, but not with abrasive detergents, as scratches or residue will affect the 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

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

Calibration

This unit is configured to meet Gemini's guoted 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 relative humidity channel should be checked once every six months, and the temperature channel annually, 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.

This product is manufactured by Gemini Data Loggers (UK) Ltd to BS EN ISO9001:2000 (Certificate No. 6134) and is approved to EN61326:1997 with any standard leads or probes supplied.







Required and Related Products

To use this data logger you will also require:

SWCD-0040: Tinytag Explorer software

SW-1500: Easyview Light software

SW-0500: Easyview Pro software

CAB-0007: Tinytag PC Download Cable

Further related products:

ACS-6000: Trigger Start Magnet SER-9550: Tinyview Plus Service Kit