



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

The TV-1500 is equipped with an LCD display to provide instant indication of temperature, humidity and alarm conditions.

The logger is made with food grade materials and is most commonly used in fridges and chill cabinets.

TV-1500

Issue 8 5th February 2007 E&OE

Popular Applications

- · Environmental monitoring
- Pharmaceutical manufacture
- Food storage and transport
- Building monitoring
- Museum display and repository



Features

- Temperature and relative humidity recorder
- LCD display of current readings
- 30,000 reading capacity
- User-programmable logging interval
- 2 user-programmable alarms
- Delayed and trigger start options
- 3 stop options
- Splash proof case
- User-replaceable battery

















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Features

Total Reading Capacity 30,000 readings Non Volatile Memory type 4 digits + indicators Display **Trigger Start** Magnetic Switch **Delayed Start** Relative / Absolute (up to 45 days)

When full

Stop Options 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

IP Rating IP65 splash proof (see notes)

Operational Range* -30°C to +70°C

Case Dimensions

Diameter 60mm / 2.36" Length 88mm / 3.46" Width 65mm / 2.56' Depth 35mm / 1.38' Weight 85g / 3oz

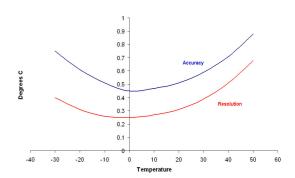
Reading Specification

Temperature

-30°C to +50°C Reading Range

Sensor Type 10K NTC Thermistor (Integral) Response Time 10 mins to 90% FSD in moving air

Reading Resolution and Overall Accuracy



Display Resolution 0.5°C

Relative Humidity

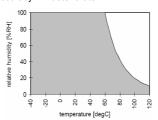
Reading Range 0% to 100% RH Sensor Type Capacitive (Integral) Response Time 10 sec to 90% FSD in still air

Typically 0.5%RH **Reading Resolution Display Resolution** 0.5% RH ±3.0% at 25°C Sensor Accuracy

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.



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



Gemini DATA LOGGERS

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Notes

Battery Type SAFT LS14250 or LST14250; Tekcell SBAA02P

with other 1/24 3 6V Lithium (Li-SOCI

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 IP68 rating does not apply to the unit's RH sensor.

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 quoted accuracy specification during its manufacture.

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).





Required and Related Products

To use this data logger you will also require:

SWCD-0040: Tinytag Explorer software

SW-1500: Easyview Light software

or

SW-0500: Easyview Pro software

and a

CAB-0007-USB: Tinytag/Tinyview USB Download Cable or CAB-0007: Tinytag/Tinyview PC Serial Download Cable

Further related products:

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