

## Tinytag View 2 Voltage Logger (0 to 25V DC)

TV-4704



The TV-4704 measures voltage from 0 to 25V DC and can be connected to a variety of industry standard sensors enabling the logging of a wide range of process parameters.

As well as recording data the unit has a display that shows what the unit is currently reading. The unit has an IP65 case and features high reading resolution and accuracy, a large memory, a fast offload speed and a low battery monitor.

This unit is supplied with an input cable.

### Popular Applications

- Battery condition monitoring
- Customised data logging:
  - CO<sub>2</sub>
  - Pressure
  - Flow Rate
  - Light

### Features

- 0 to 25V DC voltage data logger
- LCD display of current readings
- 30,000 reading capacity
- High Accuracy
- High Reading Resolution
- Fast Data Offload
- 2 user-programmable alarms
- Low battery monitor
- User-replaceable battery





## Features

<b>Total Reading Capacity</b>	30,000 readings
<b>Memory type</b>	Non Volatile
<b>Display</b>	4 digits + indicators
<b>Display Refresh Rate</b>	Every 2 seconds
<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>Load</b>	While stopped or when logging in minutes mode
<b>Alarms</b>	2 fully programmable; latchable

## Reading Specification

<b>Reading Range</b>	0 to 25V DC
<b>Reading Resolution</b>	1mV
<b>Display Resolution</b>	0.1V
<b>Accuracy</b>	0.1% of reading $\pm 10\text{mV}$

## Physical Specification

<b>Operational Range*</b>	-30°C to +70°C
<b>Case Dimensions**</b>	
Diameter	60mm / 2.36"
Length	85mm / 3.35"
Width	77mm / 3.03"
Depth	35mm / 1.38"
<b>Weight</b>	85g / 3oz

\*The Operational Range stated above indicates the physical limits to which the unit can be exposed.

\*\*The Case Dimensions and Weight do not include the supplied CAB-3239.

## Connection Information

This unit is supplied with a CAB-3239 Tinytag Voltage/Current Input Lead (1m cable length).

The connection details for the cable, and a 5-pin plug (ACS-9703 - not supplied), are as follows:

CAB-3239	Pin	Function
Red	A	Do not connect
Green	B	Do not connect
White	C	Sense Line
Black	D	Common/0V
Yellow	E	Signal Input

The Sense line is a signal line that changes state when a reading is taken.

The line goes from 0V to +3.3V, for approximately 50mS, whilst a reading is being taken (the line goes back to 0V when the reading cycle is complete).

The line has an impedance of 10K $\Omega$ .

The Sense line does not need to be connected for the data logger to record correctly.

When using the current reading feature in the Tinytag Explorer software, this data logger must not be connected to a mains powered device or a current loop will be created that will damage the unit's input circuit.

## Notes

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

The logger will operate with other 1/2AA 3.6V Lithium (Li-SOCl<sub>2</sub>) 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.

## 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 annually against a calibrated reference meter.

A ENAC 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 also require:

A CAB-3239: Tinytag Voltage/Current Input Lead (not supplied)

The following piece of 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

ACS-9703: 5-pin plug

SER-9500: Tinytag Data Logger Service Kit

ACS-5000: Tinytag Alarm Box

ACS-6000: Trigger Start Magnet