

## Tinytag Talk 2 Voltage Logger (0 to 25V)

### TK-4702

#### Issue 4

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E&OE



Tinytag Talk 2s are compact, lightweight, economical loggers housed in a 35mm film canister.

Supplied with an input cable, this logger can measure voltages up to 25V DC and can be connected to many industry standard devices, such as CO<sub>2</sub> sensors and current clamps, enabling the logging of a wide range of process parameters.

The unit is particularly useful when space is at a premium.

#### Popular Applications

- Battery condition monitoring
- Customised data logging:
  - CO<sub>2</sub>
  - Pressure
  - Flow Rate
  - Light
  - Power (with a current clamp)

#### Features

- Voltage recorder
- 16,000 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>	16,000 readings
<b>Memory type</b>	Non Volatile
<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>Offload</b>	While stopped or when logging in minutes mode
<b>Alarms</b>	2 fully programmable; latchable

### Reading Specification

<b>Reading Range</b>	0-25V DC
<b>Maximum Input</b>	35V
<b>Input Impedance</b>	100K $\Omega$
<b>Resolution</b>	1mV or better
<b>Accuracy</b>	$\pm 0.2\%$ of Reading $\pm 10\text{mV}$
<b>Temperature Stability</b>	1mV/ $^{\circ}\text{C}$ change from ambient (25 $^{\circ}\text{C}$ ).

### Physical Specification

<b>Ingress Protection</b>	IP30 (not water-proof)
<b>Operational Range</b>	-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to +185 $^{\circ}\text{F}$ )
<b>Case Dimensions*</b>	
<b>Diameter</b>	34mm / 1.34"
<b>Height</b>	54mm / 2.13"
<b>Weight*</b>	30g / 1.8oz

\*The Case Dimensions and Weight do not include the supplied CAB-3233.

### Connection Information

The Tinytag Talk 2 Voltage Logger is supplied with a CAB-3233 Talk Voltage/Current Input Lead.

The connection details for the cable, and a 2.5mm jack plug, are as follows:

CAB-3233	2.5mm Jack Plug	Function
Yellow	Ring	Signal Input
Black	Shank	Ground/0V
White	Tip	Sense Line

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

The line goes from 0v to +3.5V, for approximately 85mS, whilst a reading is being taken (the line goes back to 0V when the reading cycle is complete).

The line has an impedance of 100K $\Omega$ .

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

### Notes

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

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.

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 specification during its manufacture.

We recommend that the calibration of this unit should be checked 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.

Gemini Data Loggers (UK) Ltd. operates a Quality Management System which conforms to ISO 9001. The scope of the system covers the manufacture, design and supply of data loggers and their associated software, accessories and services.



### Required and Related Products

To use this data logger you will also require:

A CAB-3233: Talk Voltage/Current Input Lead (*supplied*)

One of the following pieces of software:

SWCD-0040: Tinytag Explorer software or  
SW-0500: Easyview Pro software

and a

CAB-0005-USB: Tinytag Transit/Talk USB Download Cable

Further related products:

CAB-0005: Tinytag Transit/Talk PC Serial Download Cable  
SER-9510: Talk Service Kit