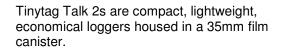




# Tinytag Talk 2 Voltage Logger (0 to 25V)

TK-4702

**Issue 7** 17th October 2014 E&OE



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 CO2 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)



- Voltage recorder
- 16,000 reading capacity
- High Accuracy
- High Reading Resolution
- Fast Data Offload
- 2 user-programmable alarms
- Low battery monitor
- User-replaceable battery



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### Features

**Total Reading Capa** 

Delayed Start Stop Options

Memory type

### Reading Types Logging Interval Offload

Alarms

acity	16,000 readings
	Non Volatile
	Relative / Absolute
	(up to 45 days)
	When full
	After n Readings
	Never (overwrite oldest data)
	Actual, Min, Max
	1 sec to 10 days
	While stopped or when
	logging in minutes mode
	2 fully programmable;
	latchable

### **Reading Specification**

Reading Range		
Maximum Input		
Input Impedance		
Resolution		
Accuracy		
Temperature Stability		

	0-25V DC
	35V
1	100ΚΩ
	1mV or better
	±0.2% of Reading ±10mV
bility	1mV/℃ change from ambient
	(25 ℃).

## **Physical Specification**

Ingress Protection Operational Range Case Dimensions\* Diameter Height Weight\*

-40 ℃ to +85 ℃ (-40 ℉ to +185 ℉) 34mm / 1.34" 54mm / 2.13" 30g / 1.8oz

IP30 (not water-proof)

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

CAB-3233 Cable Length 1.5m / 59.06"

### **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.

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### Notes

**Battery Type** 

SAFT LS14250 or LST14250; Tekcell SBAA02P

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.

After removing an old battery from a logger, wait five minutes before inserting the new one.

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 certificate of calibration, traceable to a national standard, can be supplied for an additional charge either at the point of purchase, or if the unit is returned for a service calibration.

### Approvals

Gemini Data Loggers (UK) Ltd. operates a Business Management System which conforms to ISO 9001 and ISO 14001.



### **Required and Related Products**

To use this data logger you will also require:

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

The following software:

SWCD-0040: Tinytag Explorer software

and a

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

The SWCD-0040 software and CAB-0005-USB cable can be ordered together in a pack using the part number SWPK-5-USB.

### Further Related Products

SER-9500: Tinytag Data Logger Service Kit