

## Tinytag Talk 2 Current Logger (0 to 20mA)

### TK-4802

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

Supplied with an input cable, this logger can measure current between 0 and 20mA 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

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

#### Features

- Current 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>	0-20mA DC*
<b>Maximum Overload</b>	50mA
<b>Maximum Circuit Voltage</b>	30V DC
<b>Input Impedance</b>	75Ω
<b>Resolution</b>	1μA or better
<b>Accuracy</b>	±0.2% of Reading ±10μA
<b>Temperature Stability</b>	0.001mA/°C change from ambient (25 °C).

\*The unit will actually continue to read up to 27.5mA DC if required.

### Physical Specification

<b>Ingress Protection</b>	IP30 (not water-proof)
<b>Operational Range</b>	-40 °C to +85 °C (-40 °F to +185 °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 Current 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 100KΩ.

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 ½AA 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 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-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-9500: Tinytag Data Logger Service Kit