

Tinytag Talk 2 Current Logger (0 to 20mA)

TK-4802

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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 current between 0 and 20mA 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

- Customised data logging:
 - CO₂
 - 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

Total Reading Capacity	16,000 readings
Memory type	Non Volatile
Delayed Start	Relative / Absolute (up to 45 days)
Stop Options	When full 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

Reading Specification

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

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

Physical Specification

Ingress Protection	IP30 (not water-proof)
Operational Range	-40 °C to +85 °C (-40 °F to +185 °F)
Case Dimensions*	
Diameter	34mm / 1.34"
Height	54mm / 2.13"
Weight*	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-SOCl₂) 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