Gemini
DATA LOGGERS

Tinytag

Tinytag Talk 2 Voltage Logger (0 to 2.5V)

TK-4703

Issue 4
17th October 2014
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 2.5V 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.

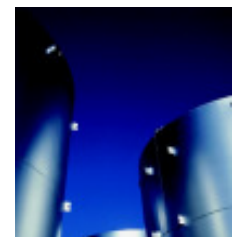The unit is particularly useful when space is at a premium.

Popular Applications

- Battery condition monitoring
- Customised data logging:
    - CO_2
    - 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

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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	0-2.5V DC
Maximum Input	3V
Input Impedance	470KΩ
Resolution	Better than 50µV
Accuracy	±0.2% of Reading ±5mV
Temperature Stability	1mV/℃ change from ambient (25℃).

Physical Specification

Ingress Protection	IP30 (not water-proof)
Operational Range	-40℃ to +85℃ (-40℉ to +185℉)
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.

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 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.

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.

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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

data sheet