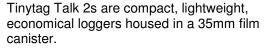




Tinytag Talk 2 Voltage Logger (0 to 2.5V)

TK-4703

Issue 3 23rd March 2012 E&OE



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:
 - CO₂
 - 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 Capacity Memory type Delayed Start Stop Options	16,000 readings Non Volatile Relative / Absolute (up to 45 days) When full After n Readings Never (overwrite oldest data)
Reading Types Logging Interval Offload Alarms	Actual, Min, Max 1 sec to 10 days While stopped or when logging in minutes mode 2 fully programmable; latchable

Reading Specification

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

Physical Specification

Ingress Protection
Operational Range
Case Dimensions*
Diameter
Height
Weight*

IP30 (not water-proof)
-40 °C to +85 °C (-40 °F to +185 °F)
34mm / 1.34"
54mm / 2.13"
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 $100K\Omega$.

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-SOCI2) 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)

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:

CAB-0005: Tinytag Transit/Talk PC Serial Download Cable SER-9500: Tinytag Data Logger Service Kit



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