

Tinytag Plus Radio Four Input Voltage Data Logger



a logging products designed for outdoor and industrial use.
that forms a robust data network that allows a user to see
across a LAN or the Internet.

ur input low voltage data logger that is ideal for recording

Popular Applications

For custom sensor monitoring, including:

- Pressure
- Flow rate
- Light
- Power (with a current clamp)

Tinytag Plus Radio Four Input Voltage Data Logger

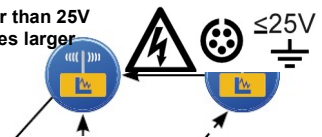
Reading Specifications

Reading Range is a battery powered, 2.5V DC voltage radio data logger that
Logger Accuracy to 2.5V DC. $\pm 0.2\%$ of reading $\pm 0.01V$
Logger Resolution Better than $100\mu V$
Maximum Input as part of a Tinytag Connect system that requires a
Impedance Connect version of the Tinytag Explorer software.

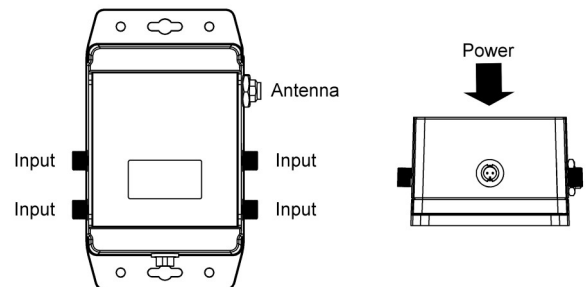


Warnings

- the installation of the software and the configuration of the receiver, the logger is turned on and will establish itself as part of the mesh network the system.
- **This logger should only be connected to the inputs specified above, otherwise damage to the logger may occur.**
 - Do not connect to voltages greater than 25V relative to earth or isolated supplies larger than 25V.



Connections



This logger can be used with a GAB-3239 Tinytag signal cable. Input Lead (supplied) or an ACS-9703 5-Pin Plug.

The logger is then set to record at a user-defined logging interval, anything from once every 2 minutes to once every 10 days. At the end of every logging interval, the logger will transmit the number of counts it has recorded during

GAB-3239 5-Pin Plug Function

Red data recorded by the logger is stored in the computer running the system
 Green Windows service (called the radio network) and this is then viewed
 White a LAN or the Internet through the Tinytag Explorer Connect software.

Black D Common/0V
 Yellow logger cannot communicate with the network for any reason, it will record locally until communications are restored.

The Sense line is a signal line that changes state when a reading is taken. The logger can be programmed with alarms. Warning e-mails can be sent when the line is triggered. A reading is being taken (the line goes back to 0V when the reading cycle is complete).

Data recorded by the system can be viewed as a graph or as a table of readings. The readings are shown in 100 views containing information about the recording run and a daily min/max view.

The Sense line does not need to be connected for the data logger to record data. Data from multiple devices recording at the same time can be combined into a single graph using Tinytag Explorer Connect.

Data can be exported from the software as a graph image, for use in report writing, or as a data table, for further analysis in third-party spreadsheet programs.

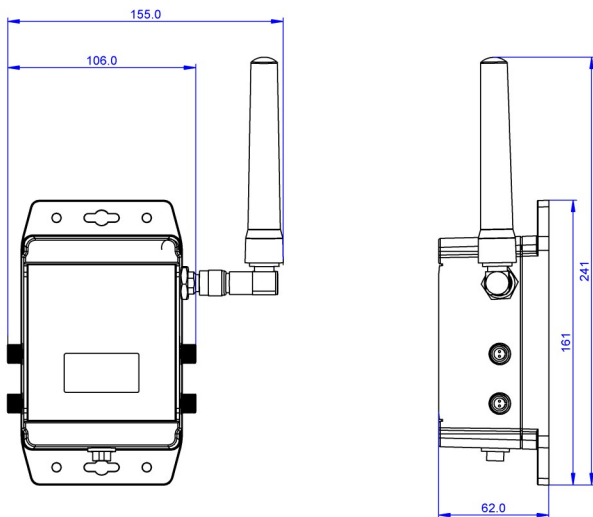
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Physical Specification

Logging Interval	2 minutes to 10 days
Off-line storage Capacity*	2 weeks typical, at a 10 minute logging interval
Operational Range*	-20°C to +55°C
Case Dimensions (excluding antenna)	
Length/Height	155mm / 6.1"
Width	106mm / 4.2"
Depth	62mm / 2.44"
Weight (inc. antenna)	57g / 2.01oz

*The Operational Range indicates the physical limits to which the unit can be used. Communications with the gateway service are interrupted, by a power failure to the computer running the gateway service or an obstacle causing a

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can be used to send SMS messages using the Tinytag Plus Radio Four Input Voltage Data Logger.

Radio Specification

The logger can be wall mounted or placed on a flat surface such as a shelf.

Radio Frequency	EU 869.88MHz
Radio Power	AUS 917.8MHz
Radio Range	EU <5mW (-)
Radio License	AUS <3mW (-)
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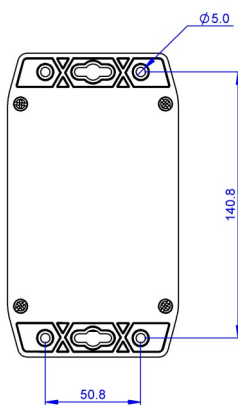
The logger uses FSK modulation, with +/-32 I

These frequencies will easily penetrate most buildings but the signal will often still get through windows and air vents etc.) the signal will often still get through windows and air vents etc.)

Although the radio waves cannot penetrate a iron sheds etc.) the signal will often still get through windows and air vents etc.

The logger can also be positioned on a non-conductive flat surface, such as a desk or a shelf, with its antenna positioned vertically, with no loss of performance.

The advantage of the mesh network is that long ranges will often be able to relay data though transmit further.



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Power Information

Battery Power

Battery Type 2 x Duracell Industrial ID1400
C (LR14) 1.5V (supplied)

The logger will operate with other C cell batteries but performance cannot be guaranteed.

Battery Life Typically 12 months

When the logger's batteries start to run flat, a low battery warning will be displayed in the Tinytag Explorer Connect software and the LED on the front of the logger will flash red. The low battery warnings will start to flash when the logger has approximately two weeks of battery power remaining.

Before replacing batteries the logger must be turned off.

Alkaline batteries should always be replaced in pairs.

Data stored in the radio system will be retained after batteries are replaced.

A lithium battery powered version of the logger is also available, that provides a wider working temperature range and a longer battery life. Please contact your supplier for further details.

Mains Power

The logger can also be powered from the mains using a plug-in power supply.

If the power supply is interrupted, the logger's batteries will power the logger and continue recording until the supply is restored.

Note: This logger should only be used with an ACS-0044 Tinytag Plus Radio power supply.

Calibration

This logger is configured to meet Gemini's quoted accuracy specification during its manufacture.

We recommend that the calibration of this unit should be checked annually against a calibrated reference meter.

A 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.

Warranty

This product carries a manufacturing defects warranty of 12 months from the date of purchase. Units returned under warranty will be repaired or replaced at the manufacturer's discretion. This warranty does not cover mishandling, modification or battery replacement and is subject to our standard Terms and Conditions of Sale, a copy of which can be found at www.tinytag.info.