Tinytag Plus Radio Single Input Voltage Data Logger

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

w voltage data logger that is ideal for recording the

Popular Applications

For custom sensor monitoring, including:

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

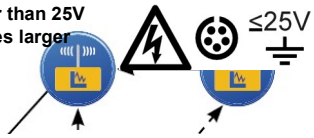
Tinytag Plus Radio Single Input Voltage Data Logger

Reading Logger Data

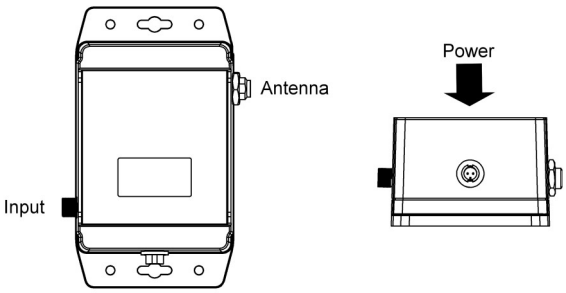
Reading Range 0 to 25V DC
Logger Accuracy ±0.2% of reading ±0.02V
Logger Resolution Better than 1mV
Maximum Input 26V
Input Impedance 1MΩ

Warnings

- **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 CAB-3235 Tinytag Voltage/4P Input Lead (supplied) or an ACS-9703 5-Pin Plug.
The connection details for the cable and plug are as follows:

CAB-3235	5-Pin Plug	Function
Red	A	Not Connected
Green	B	Not Connected
White	C	Sense Line
Black	D	Common/0V
Yellow	E	Signal Input

The Sense line is a signal line that changes state when a reading is taken. The line goes from 0V to +3.3V 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.

The Sense line does not need to be connected for the data logger to record correctly.

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.

The typical range of the logger on a clear line of sight is 200m.
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 that period.

The data recorded by the logger is stored on the computer running the system by a Windows service (called the radio gateway) and this is then viewed across a LAN or the Internet through the Tinytag Explorer Connect software.
If a logger cannot communicate with the mesh network for any reason, it will record locally until communications are restored.
The logger can be programmed with alarms. Warning e-mails can be sent when the limits entered are exceeded.
Data recorded by the system can be viewed as a graph or as a table of readings. There are also summary views containing information about the recording run and a daily min/max view.
Data from multiple devices recording at the same time can be combined into a single graph using Tinytag Explorer Connect.

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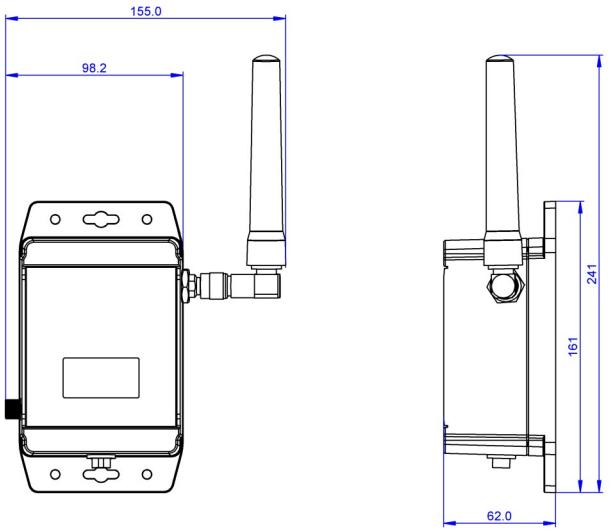
Physical Specification

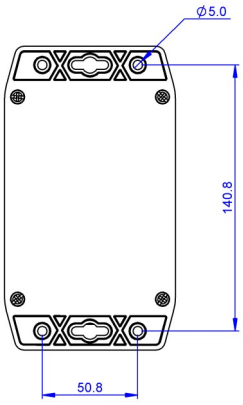
IP Rating	IP67
Battery	4 off
Logging Interval	2 minutes to 10 days
Off-line storage Capacity*	2 weeks typical, at a 10 minute logging interval
Operational Range*	-20°C to +55°C
Case Dimensions (excluding antenna)	
Length / Height	241mm / 9.49"
Width	155mm / 6.10"
Depth	62mm / 2.44"
Weight (inc. antenna)	654g / 1.8 lbs / 23.04oz

*The Operational Range indicates the physical limits to which the unit can be exposed.



Radio Specification

Radio Frequency	**EU**	869.88M
	AUS	917.8MH
Radio Power	**EU**	<5mW (-
	AUS	<3mW (-
Radio Range		200m, ty
Radio License		SRD lice



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Gemini DATA LOGGERS

Tinytag Plus Radio Single Input Voltage Data Logger

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**.