

Tinytag Alarm Box

User Guide

Instructions for using the ACS-5001 Tinytag Alarm Box and software tool.

⚠ WARNINGS

- If this equipment is installed or used in a manner not specified by the manufacturer then the protection provided by the equipment may be impaired.
- This equipment should only be interfaced to equipment which is powered by a Safety Extra Low Voltage Supply. The maximum voltage levels are to be 30V rms, 42V peak or 60V d.c. and separated from hazardous voltages by double or reinforced insulation. For the United States consider a Safety Extra Low Voltage Supply to be a Class 2 source as defined in the National Electrical Code.
- The relay output is intended for alarm purposes only and should not be used in critical or safety control applications.
- This equipment is safe to use indoors over the temperature range 0°C to 50°C (32°F to 122°F).

Supplied Items

- 1 x ACS-5001 Tinytag Alarm Box
- 1 x CAB-0012 Alarm Box Cable
- 1 x Mounting Bracket
- 1 x 9V PP3 Battery
- 1 x Tinytag Alarm Box User Guide

Optional Accessories

- 1 x SWCD-0040 Tinytag Explorer software (version 5.1 or above)
- 1 x CAB-0007-USB Tinytag Ultra/Plus/View USB Interface Cable

Supported Units

The alarm box is suitable for use with the following data loggers:

Tinytag Plus 2:

TGP-4017	TGP-4020	TGP-4104	TGP-4204
TGP-4500	TGP-4505	TGP-4510	TGP-4520
TGP-4810			

Tinytag View 2:

TV-4020	TV-4050	TV-4076	TV-4104
TV-4204	TV-4500	TV-4501	TV-4505
TV-4506	TV-4510	TV-4704	TV-4804
TV-4810	CR-0100		

Initial Setup

Fit the supplied 9V PP3 battery in the alarm box (the alarm box will give a double beep when it powers up).

The alarm box can be configured to sound after a set delay when the logger, which the alarm box is attached to, goes into an alarm state. This allows work to be carried out in an application without an alarm triggering.

If a delay is not required, skip to the **Final Setup** section.

Tinytag Explorer

To configure an ACS-5001 Tinytag Alarm Box, a copy of Tinytag Explorer version 5.1 (or above) is required.

Users with an earlier version of the software can upgrade free of charge from:

www.tinytag.info/downloads

For instructions on how to install and use Tinytag Explorer, please see the software's Quick Start Guide and Help file.

Using Tinytag Explorer to Configure an Alarm Box

- Plug the alarm box into a USB port using a CAB-0007-USB cable.
- Open Tinytag Explorer.
- Go to **Options** and **Configure Alarm Box**.
- Click **Next** on the screen that appears and select the communication port the box is plugged into before clicking **Next** again.
- To set an alarm box to sound as soon as an alarm limit is exceeded (the box will be set to do this by default) select **Sound Alarms Immediately** and then **Program**.
- To set an alarm box to sound after an alarm limit has been exceeded for a specific period of time, select **Sound Alarms After a Delay** and enter the duration of the delay you require, then click **Program**.
- When complete the software will confirm that the alarm box has been programmed. Click **OK** to exit the setup program.

Final Setup

Set up a data logger as described in the Tinytag Explorer Quick Start Guide and then connect it to the alarm box using the supplied CAB-0012 cable.

Alarm Box Features

Alarm Sounder

When attached to a logger with an active alarm, the alarm box will beep every 2 seconds. When the logger's alarm deactivates, the alarm box will cease sounding.

Test Button

The Test button simulates an alarm condition. When pressed, this will sound the alarm every 2 seconds until released. This will have no effect on any logger attached to the alarm box.



Reset (Clear Alarms) Button

If a logger is configured with latched alarms and triggered, it will continue to alarm until this is acknowledged. Any alarm box connected to the logger will therefore sound continuously until alarms are cleared.

The Reset button resets the alarm in the logger, which will in turn silence the alarm box until the next alarm event.

The Reset button should be held down until a triple beep is heard to acknowledge the logger has been reset.

Low Battery Warning

When the alarm box's battery starts to get low, the unit will emit three rapid high-pitched beeps, once every minute.

Volt-Free Relay Contacts

The alarm box has a built-in latching relay, which can be used to trigger external devices.

Two sets of changeover contacts can be connected to using a set of screw terminals inside the case.

A label by the contacts shows the arrangement of the terminals.



A blanking plug in the side of the case allows cable access.

The relay operation reflects the state of the audible alarm (a small delay may be noticeable).

It is the user's responsibility to ensure that the relay contacts are used in a safe manner.

Switched Output Specification:

Maximum Voltage	42V peak / 60V DC
Maximum Current	1A (AC or DC)

Read carefully the warnings at the start of this manual.

Physical Specification

Operating Range	
Temperature	0°C to +50°C (32°F to +122°F)
Relative Humidity	0 to 90% (non-condensing)
Case Dimensions	
Length	122mm / 4.80"
Height	79mm / 3.11"
Depth	32mm / 1.26"
Weight (including battery)	165g / 5.82oz
Interface Cable Length	3m

Mounting Instructions

The alarm box is supplied with a bracket for easy wall mounting.

This comes in two parts; a bracket that screws onto the wall and a clip that screws into the back of the alarm box.

When fitted, the clip slots into the bracket.

The two mounting holes on the bracket are 3mm in diameter and 32mm apart.



Battery Information

Battery Type	9V PP3 Alkaline or equivalent (Duracell ID1604 recommended)
Battery Life	Up to 2 years standby use, 5 days of continuous alarms.

When a battery is fitted or replaced, the unit will give a double beep on power-up.

Remove the battery if exhausted or if the unit will not be used for a prolonged period.

Do not recharge the battery.

Note: Delay settings programmed into an alarm box are not retained when a battery is replaced.

Approvals

Gemini Data Loggers (UK) Ltd. operates a Business Management System which conforms to ISO 9001 and ISO 14001.



Warranty & Disposal

- 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 replacement batteries and is subject to the standard Terms and Conditions of Sale, a copy of which is available on request.

- The equipment/goods are sold "as is" and with "all faults" (applies in USA). Claims under warranty should be referred to the point of sale.**

- Data loggers, accessories and batteries should be disposed of at organised facilities, where available, in line with local regulations.

- In accordance with the WEEE directive, Gemini Data Loggers (UK) Ltd. will accept the return of any equipment purchased directly for disposal. Equipment not purchased directly should be returned to the point of sale.



Further Information

If you should have any questions about this product, please contact your supplier, or Gemini Technical Support at:

e: help@tinytag.info
t: +44(0)1243 813009
w: www.tinytag.info/support

Gemini
DATA LOGGERS