

## Tinytag Plus High Sensitivity Shock (0 to 5g)

### TGP-0605

**Issue 9**

31st January 2006  
E&OE

The workhorse of the Gemini range the Tinytag Plus data loggers are housed in robust, waterproof (IP68) rated cases that are designed for use in harsh and outdoor applications.

The TGP-0605 measures low level impacts and can be used for machine condition monitoring and the monitoring expensive and/or fragile shipments.

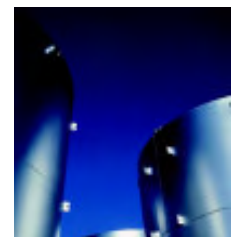
#### Popular Applications

- Fragile goods storage and transportation
- Building work monitoring
- Machine condition monitoring



#### Features

- High sensitivity impact recorder
- 16,000 reading capacity
- User-programmable logging interval
- 2 user-programmable alarms
- Delayed start options
- 3 stop options
- Waterproof case
- User-replaceable battery



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## Features

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

## Reading Specification

<b>Reading Range</b>	0 to 5g (49m/s <sup>2</sup> )
<b>Sensor Type</b>	Piezo Electric
<b>Accuracy*</b>	±5% Reading +0.02g
<b>Linearity</b>	±1% Full Scale Deflection
<b>Resolution</b>	0.02g (0.2m/s <sup>2</sup> )

\*The accuracy figure stated is based on shocks approximated by a half sine wave of length 2ms to 20ms. The logger is less sensitive to shocks either slower or faster than this range.

## Physical Specification

<b>IP Rating</b>	IP68 water-proof (see notes)
<b>Operational Range*</b>	-40°C to +85°C (-40°F to +185°F)
<b>Case Dimensions</b>	
<b>Height</b>	34mm / 1.34"
<b>Width</b>	73mm / 2.9"
<b>Depth</b>	68mm / 2.68"
<b>Weight</b>	140g / 4.94oz

\*The Operational Range indicates the physical limits to which the unit can be exposed, not the reading range over which it will record.

## Notes

**Battery Type** SAFT LS14250 or LST14250;  
Tekcell SBAA02P

The logger will operate with other ½AA 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.

The IP68 rating is valid only when the unit's connector cap is fitted and is valid to a depth of 15m (50ft).

The TGP-0605 records the magnitude of acceleration experienced by the unit along the axis running through the logger's lid to its base.

To avoid reading errors the logger must be securely fitted to a flat surface using the unit's two mounting flanges.

## 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.

A 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.

This product is manufactured by Gemini Data Loggers (UK) Ltd to BS EN ISO9001:2000 (Certificate No. 6134).



## Required and Related Products

To use this data logger you will also require:

One of the following pieces of software:

SWCD-0040: Tinytag Explorer software or  
SW-1500: Easyview Light software or  
SW-0500: Easyview Pro software

and a

CAB-0007: Tinytag PC Serial Download Cable

Further related products:

CAB-USB: USB to Serial Converter  
SER-9530: Tinytag Plus/IS Service Kit

data sheet