



### Features

Memory Size : 16k (Non-volatile)  
No. of Readings : 16000 (approx)  
Resolution : 8 bit  
Trigger Start : Magnetic reed switch  
Delayed Start : Relative / Actual  
up to 45 days  
Stop Options : When Full  
After n Readings  
Never (Wrap around)  
Reading Types : Actual, Min, Max.  
Logging Interval : 1 sec to 10 days  
Offload : While stopped or  
when logging in  
minute multiples  
Alarms : Two, fully  
Programmable  
Functional Range : -40°C to +85°C /  
-40°F to +185°F  
IP Rating : IP68 waterproof  
Battery Life : Up to 5 years

### Input Specification

Range : 0-255 counts  
per interval  
Max. Frequency : 50 counts / second  
Divide by counter : 1 to 255  
Input type : Digital, or volt-free  
Switch contact  
Max. Error :  $\pm$  divisor/2

**Digital** Low level : -0.5V to +1V  
High level : 2.5V to 10V  
Min pulse width : 150us (at 5V)  
Min pulse separation : 150us (at 5V)  
Edge detection : High - Low transition

**Contact** Type : Normally Open (with  
Minimal debounce)  
Min closed time : 150us  
Min open time : 500us  
Edge detection : Open to closed

### Mechanical Data

Case Style : IP68 Style

#### Case Dimensions

Height : 34mm / 1.34  
Width : 59mm / 2.32  
Depth : 80mm / 3.15  
Weight : 110g / 3.9 oz.

#### Notes:

Battery replacement recommended every 2 years. It may be replaced with Saft 3.7V 1/2AA Lithium cells. Stop the unit logging before replacing the battery.

The IP68 rating is only valid to depths of 50ft (15m) and only when the connector cap and sensor cable are securely fitted.

### 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) this device must accept any interference received, including interference that may cause undesired operation.

This product is manufactured by Gemini Data Loggers (UK) Ltd. to EN ISO 9002 part 2 (Certificate No. 6134), and is CE approved to EN50081 part 1:1992 and EN50082 part 1 and 2:1992/95 with any standard leads or probes supplied.



### Special Notes

When using the units at low temperatures, condensation may form. Before opening the case for any reason, allow the units to reach room temperature.

This logger forms part of the Tinytag Plus Re-educatable range. The measurement range and units can be changed with Re-Educator Software to suit the particular sensor to be attached.

It is suggested that the manual is read thoroughly to gain an understanding of the principles employed and the specific sensor requirements of the logger.

### Interface Information and Related Products

#### To use your Tinytag Plus Re-ed Count Data Logger you will require:

Tinytag current/millivolt/count input lead (CAB-3246) or 2-pin plug only (ACS-9700);  
Tinytag interface cable (CAB-0007), PC with GLM for Windows™ (SW-0009) or Easyview for Windows 95™ (SW-0500); or  
Psion handheld computer, with Tinylink version 2.0 or above (SW-1101) and suitable cable (See Tinylink Data Sheet).  
To change ranges and/or units you will need a PC, with Re-Educator Software V2.2 or above (SW-0506) and interface cable CAB-0007.

#### Further Related Products:

ACS-6000 Trigger Start Magnet  
SER-9532 Tinytag Plus Service Kit including battery, seal and silica gel pack  
TGPR-1200 Tinytag Plus Re-ed Count: PCB only, for OEM use.

### Applications

Liquid flow sensing      People counting      Event logging