Gemini Data Sheet

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)
Logging Interval :	1 sec to 10 days
Offload :	While stopped or when logging in minute multiples
Alarms :	Two, fully Programmable
Functional Range :	-40°C ➙ +85°C / -40°F ➙ +185°F
IP Rating :	IP68 waterproof
Battery Life :	Up to 5 years

Notes:

Battery replacement recommended every 2 years. It may be replaced with Saft 3.6V 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.

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 :	± divisor/2

Digital Input

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 Input

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.

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 BS EN ISO 9001:2000 (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).
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-9530	Tinytag Plus/I.S. Service Kit including battery, seal and silica gel pack
TGPR-1200	Tinytag Plus Re-ed Count: PCB only, for OEM use.