

Tinytag Plus Re-Ed Count Input Logger (0-255n)

TGPR-1201

Issue 11
7th December 2007
E&OE

A count input data logger that is housed in a robust, waterproof (IP68) rated case.

Common applications include flow rate and quantity monitoring.

Popular Applications

- Flow Rate Monitoring
- People Counting
- Wind Speed
- Rainfall



Features

- Count input data logger
- Volt-free contact and digital input
- 16,000 reading capacity
- User-programmable logging interval
- 2 user-programmable alarms
- Delayed start options
- 3 stop options
- Robust, waterproof case
- User-replaceable battery



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Features

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

Reading Specification

Reading Range	0 to 255 Counts/Interval (See Notes)
Maximum Frequency	50 Counts/Second
"Divide by" counter	1 to 255 (See Notes)
Input Type	Digital or Volt-Free Contact Switch
Maximum Error	\pm Divisor/2 (See Notes)
Digital Input	
Low Level	-0.5V to +1V
High Level	2.5V to 10V
Min. Pulse Width	50 μ S (at 5V)
Min. Pulse Separation	50 μ S (at 5V)
Edge Detection	High-Low Transition
Contact Input	
Type	Normally Open (With Minimal De-bounce)
Min. Closed Time	50 μ S
Min. Open Time	2 μ S
Edge Detection	Open to Closed

Physical Specification

IP Rating	IP68 water-proof (see notes)
Operational Range*	-40 °C to +85 °C (-40 °F to +185 °F)
Case Dimensions	
Height	34mm / 1.34"
Width	59mm / 2.32"
Depth	80mm / 3.15"
Weight	110g / 3.9oz

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

Notes

Battery Type	Tekcell SBAA02P, SAFT LS14250 or LST14250;
	The logger will operate with other 1/2AA 3.6V Lithium (Li-SOCl ₂) batteries but performance cannot be guaranteed.
Replacement Interval	Every two years
	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 and input cable are fitted and is valid to a depth of 15m (50ft).

If a volt-free switch is being used that requires further de-bounce, this can be achieved by connecting a 10nF capacitor across the switch contacts.

Using the Re-Educator software, which is supplied on the Tinytag Explorer CD, or can be downloaded free of charge from our web site (<http://www.tinytag.info/downloads>), the unit can be configured to display recorded data in the appropriate engineering units for the application it is being used in. Also, using Re-Educator, a divide by counter - or "divisors" - can be set in the unit to increase the number of counts the logger can record to 65,536 per interval.

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.

Gemini Data Loggers (UK) Ltd. operates a Quality Management System which conforms to BS EN ISO 9001:2000. The scope of the system covers the manufacture, design and supply of data loggers and their associated software, accessories and services.



Required and Related Products

To use this data logger you will also require a cable:

CAB-3246: Tinytag Current/Millivolt/Count Input Lead
or a
ACS-9700: 2-Pin Plug

One of the following pieces of software:

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

and a

CAB-0007-USB: Tinytag Ultra/Plus/View USB Download Cable

Further related products:

CAB-0007: Tinytag PC Serial Download Cable
SER-9530: Tinytag Plus/IS Service Kit
ACS-6000: Trigger Start Magnet