

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

TGPR-1200

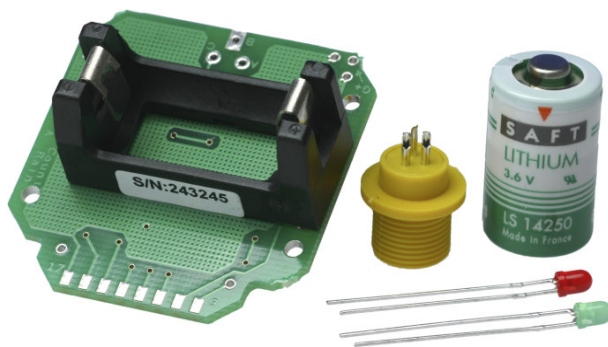
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E&OE

A count input data logger that is supplied un-cased so that it can be built into custom applications.

Common applications include flow rate and quantity monitoring.

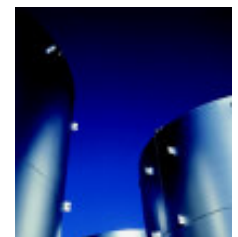
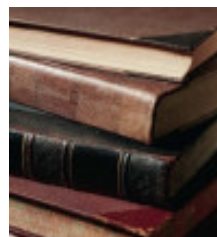
Popular Applications

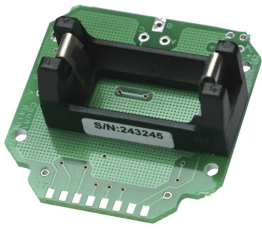
- Flow Rate Monitoring
- People Counting
- Wind Speed
- Rainfall



Features

- Count input data logger
- Volt-free contact and digital input
- 64,000 reading capacity
- User-programmable logging interval
- 2 user-programmable alarms
- Delayed start options
- 3 stop options
- User-replaceable battery





Features

Total Reading Capacity	64,000 readings (current product); 16,000 readings (below SN 515899)
Memory type	Non Volatile
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; latchable

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	± Divisor/2 (See Notes)

Digital Input

Low Level	-0.5V to +1V
High Level	2.5V to 10V
Min. Pulse Width	50µS (at 5V)
Min. Pulse Separation	50µS (at 5V)
Edge Detection	High-Low Transition

Contact Input

Type	Normally Open (With Minimal De-bounce)
Min. Closed Time	50µS
Min. Open Time	2µS
Edge Detection	Open to Closed

Notes

Battery Type	Tekcell SBAA02P, SAFT LS14250 or LST14250;
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The logger will operate with other 1/2AA 3.6V Lithium (Li-SOCl₂) batteries but performance cannot be guaranteed.

Replacement Interval	Every two years
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Before replacing the battery the data logger must be stopped.

Data stored on the logger will be retained after a battery is replaced.

Battery and 2 LEDs are supplied, but not fitted to the PCB.

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.

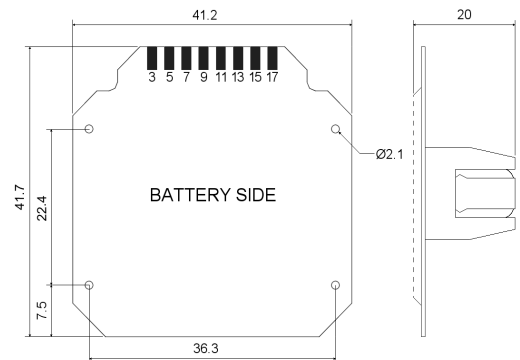
Using the Re-Educator software, which is supplied on the Tinytag Explorer CD, or can be downloaded free of charge from our web site (<http://www.tinytag.info/downloads>), the unit can be configured to display recorded data in the appropriate engineering units for the application it is being used in. 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 65,280 per interval.

Physical Specification

Operational Range	-40°C to +85°C (-40°F to +185°F)
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The Operational Range indicates the physical limits to which the unit can be exposed.

Connections



The PCB edge mates with a 0.1" IDC female edge connector, such as RS Part No. 471-317.

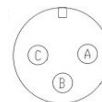
Battery Side

- 3: Battery +Ve (3.6V)
- 5: Green LED Anode
- 7: RS232 Logger Transmit (Tx)
- 9: RS232 Logger Receive (Rx)
- 11: Do Not Connect
- 13: Do Not Connect
- 15: Do Not Connect
- 17: Power and Signal GND (0V)

Component Side

- 4: Do Not Connect
- 6: Red LED Anode
- 8: Do Not Connect
- 10: Do Not Connect
- 12: Do Not Connect
- 14: Do Not Connect
- 16: Do Not Connect
- 18: Count Signal Input

Communication Socket (supplied) as viewed from behind.



- A: RS232 Logger Receive (Rx)
- B: RS232 Logger Transmit (Tx)
- C: Power and Signal GND (0V)

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 Quality and Environmental Management Systems which conform to ISO 9001 and ISO 14001. The scope of these systems 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 one of the following pieces of software:

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

Further related products:

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