



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

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.

TGPR-1200

Issue 15 9th August 2019 E&OE

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

















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Features

Stop Options

Total Reading Capacity 64,000 readings (current product);

16,000 readings (below SN 515899)

Non Volatile Memory type **Delayed Start** Relative / Absolute (up to 45 days)

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 Maximum Frequency "Divide by" counter

50 Counts/Second 1 to 255 (See Notes)

0 to 255 Counts/Interval (See Notes)

Input Type Maximum Error Digital or Volt-Free Contact Switch

± Divisor/2 (See Notes)

Digital Input

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

Contact Input

Type Normally Open (With Minimal

De-bounce)

Min. Closed Time 50µS Min. Open Time

Edge Detection Open to Closed

Notes

The battery fitted in this product is a single cell containing less that 1g of lithium and meets the requirements of the UN Manual of Tests and Criteria, Part III, Subsection 38.3.

Recommended Battery Types

SAFT LS14250 Tekcell SBAA02P or Eve ER14250

The logger will operate with other ½AA 3.6V Lithium 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.

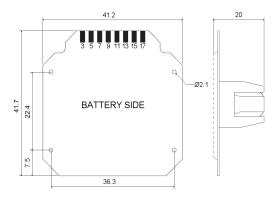
Battery and 2 LEDs are supplied, but not fitted to the PCB.

If a volt-free switch is being used that requires further debounce, 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.

Connections





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)

Physical Specification

Operational Range

-40 °C to +85 °C (-40 °F to +185 °F)

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

Approvals

Gemini Data Loggers (UK) Ltd. operates a Business Management System which conforms to ISO 9001 and ISO 14001



Required and Related Products

To use this data logger you will require the following software:

SWCD-0040: Tinytag Explorer software

Further Related Products

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

The SWCD-0040 software and CAB-0007-USB cable can be ordered together in a pack using the part number SWPK-7-USB.