



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

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

Common applications include flow rate and quantity monitoring.

# **TGPR-1201**

Issue 18 17th October 2014 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
- Robust, waterproof case
- User-replaceable battery

















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#### **Features**

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

16,000 readings (below SN 515899)

 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; latchable

#### **Reading Specification**

Reading Range Maximum Frequency "Divide by" counter Input Type Maximum Error 0 to 255 Counts/Interval (See Notes) 50 Counts/Second 1 to 255 (See Notes)

Digital or Volt-Free Contact Switch ± Divisor/2 (See Notes)

Digital Input

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

**Contact Input** 

Type Normally Open (With Minimal

 $\begin{array}{c} \text{De-bounce)} \\ \text{Min. Closed Time} \\ \text{Min. Open Time} \\ \end{array} \begin{array}{c} \text{De-bounce)} \\ 50 \mu S \\ 2 \mu S \end{array}$ 

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.

# **Connection Information**

The Tinytag Plus Re-Ed Count Input Logger can be used with a CAB-3246 Tinytag Current/Millivolt/Count Input Lead (supplied) or an ACS-9700 2-Pin Plug.

The connection details for the cable and plug are as follows:

| CAB-3246 | 2-Pin Plug | Function     |
|----------|------------|--------------|
| Blue     | Α          | Common/0V    |
| Red      | В          | Signal Input |

#### **Notes**

Battery Type Tekcell SBAA02P

SAFT LS14250 or LST14250;

The logger will operate with other ½AA 3.6V Lithium (Li-SOCI2) batteries but performance cannot be guaranteed.

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 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.

The position of the unit's trigger start switch is indicated by the ••• label on the back of the logger. When the "Wait until trigger event" option is selected in the Tinytag Explorer software, the green LED on the unit will flash once every eight seconds, indicating that the unit is waiting to log. When a magnet is held next to the label, the green LED will light until the magnet is removed to show that the switch is closed. After the magnet has been removed, the green LED will flash every four seconds to indicate that the logger is recording.

# **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 either a:

CAB-3246: Tinytag Current/Millivolt/Count Input Lead (supplied)

or an

ACS-9700: 2-Pin Plug
The following software:

SWCD-0040: Tinytag Explorer software

and a

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.

#### **Further Related Products**

SER-9500: Tinytag Data Logger Service Kit

ACS-6000: Trigger Start Magnet