

## Tinytag Plus Re-Ed Millivolt Input Logger (0 to 200mV)

### TGPR-1001

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E&OE

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

The TGPR-1001 can be used to record the output from a number of industry standard sensors.

Common applications include mains and power consumption monitoring.

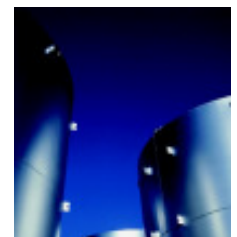
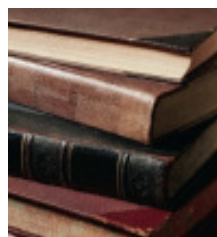
#### Popular Applications

- Customised data logging:
  - CO<sub>2</sub>
  - Pressure
  - Flow Rate
  - Light
  - Power (with a current clamp)



#### Features

- Millivolt input data logger
- 64,000 reading capacity
- User-programmable logging interval
- 2 user-programmable alarms
- Delayed start options
- 3 stop options
- Robust, waterproof case
- User-replaceable battery





### Features

<b>Total Reading Capacity</b>	64,000 readings (current product); 16,000 readings (below SN 501182)
<b>Memory type</b>	Non Volatile
<b>Trigger Start</b>	Magnetic Switch
<b>Delayed Start</b>	Relative / Absolute (up to 45 days)
<b>Stop Options</b>	When full After n Readings Never (overwrite oldest data)
<b>Logging Interval</b>	1 sec to 10 days
<b>Offload</b>	While stopped or when logging in minutes mode
<b>Alarms</b>	2 fully programmable; latching

### Reading Specification

<b>Range</b>	0 to 200mV DC
<b>Maximum Input</b>	500mV
<b>Input Impedance</b>	100kΩ
<b>Resolution</b>	0.8mV
<b>Accuracy</b>	±1mV ±0.5% of reading

### Physical Specification

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

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

### Connection Information

The Tinytag Plus Re-Ed Millivolt 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	A	Common/0V
Red	B	Signal Input

### Calibration

This unit is configured to meet Gemini's quoted specification during its manufacture.

We recommend that the calibration of this unit should be checked annually against a calibrated reference meter.

A certificate of calibration, traceable to a national standard, can be supplied for an additional charge either at the point of purchase, or if the unit is returned for a service calibration.

### 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.

**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).

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.

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