



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

A millivolt input data logger that is supplied uncased so that it can be built into custom applications.

The TGPR-1000 can be used to record the output from a number of industry standard sensors.

Common applications include mains and power consumption monitoring.

TGPR-1000

Issue 12 9th August 2019 E&OE

Popular Applications

• Customised data logging:

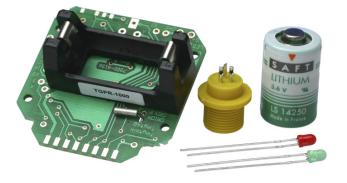
CO₂

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
- User-replaceable battery















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Features

Offload

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

16,000 readings (below SN 501182)

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

> When full After n Readings

Never (overwrite oldest data)

Logging Interval 1 sec to 10 days

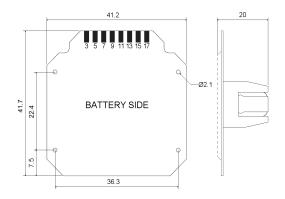
> While stopped or when logging in minutes

> > mode

Alarms 2 fully programmable; latchable

Connection Information





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

17: Power and Signal GND (0V)

Component Side

4: Do Not Connect 6: Red LED Anode

8: Do Not Connect

10: Sense Line*

12: Reference Line

14: Do Not Connect

16: Do Not Connect 18: mV 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)

*See Notes

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.

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

Reading Specification

Range 0 to 200mV DC Maximum Input 500mV 100kΩ Input Impedance Resolution 0.8mV

Accuracy ±1mV ±0.5% of reading

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 1/2AA 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

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

The Reference line is an output from the logger that provides a 2.5V (100µA max) reference voltage for external application, if required.

The Sense Line is an output from the logger that changes state when a reading is taken.

This line goes from 0v to +3.5V, for approximately 50mS, whilst a reading is being taken (the line goes back to 0V when the reading cycle is complete).

The Sense Line has an impedance of 100KΩ.

The Reference and Sense Lines do not need to be connected for the data logger to record correctly.

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.

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: Tinytag PC Serial 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.