Gemini DATA LOGGERS

Tinytag

DATA SHEET

Tinytag Plus Re-Ed Current Input Logger (0 to 20mA)

TGPR-0804

Issue 13
21st April 2011
E&OE

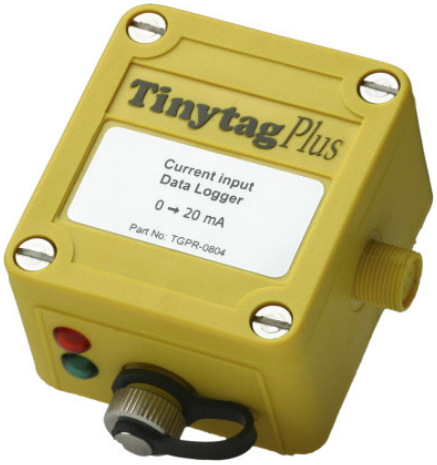
A current input data logger that is housed in a robust, waterproof (IP68) rated case.

The TGPR-0804 can be used to record the output from a number of industry standard 4-20mA sensors.

Common applications include pressure and flow rate monitoring.

Popular Applications

- Customised data logging:
  - CO_2
  - Pressure
  - Flow Rate
  - Light
  - Power (with a current clamp)



Features

- Current 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



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Features

Total Reading Capacity	64,000 readings (current product); 16,000 readings (below SN 501162)
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

Range	0 to 20mA DC
Maximum Input	50mA
Input Impedance	10Ω
Resolution	0.08mA
Accuracy	±0.1mA ±0.6% of reading

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.

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

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 design, manufacture and servicing of data logging and associated equipment, including software.

nqa. ISO 9001 Registered

nqa. ISO 14001 Registered

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Connection Information

The Tinytag Plus Re-Ed Current Logger can be used with a CAB-3246 Tinytag Current/Millivolt/Count Input Lead 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

Notes

Battery Type Tekcell SBAA02P,
SAFT LS14250 or LST14250.

The logger will operate with other ½AA 3.6V Lithium (Li-SOCl2) 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.

When using the current reading feature in the Tinytag Explorer software, this data logger must not be connected to a mains powered device or a current loop will be created that will damage the unit’s input circuit.

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.

Required and Related Products

To use this data logger you will require either a:

CAB-3246: Tinytag Current/Millivolt/Count Input Lead or a
ACS-9700: 2-Pin Plug

One of the following pieces of software:

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

and a

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

Further related products:

CAB-0007: Tinytag Ultra/Plus/View Serial Download Cable
SER-9500: Tinytag Data Logger Service Kit
ACS-6000: Trigger Start Magnet

data sheet