



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

TGPR-0805

Issue 9 7th December 2007 E&OE A current input data logger that has an internal battery pack, which can be used to power an external sensor, this unit is housed in a robust, splash-proof case.

The TGPR-0805 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
- 12V, 2500mAh power supply
- 16,000 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 16,000 readings
Memory type Non Volatile
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

XP Power Output 12V, 50mA (typical)

Reading Specification

Accuracy ±0.1mA ±0.6% of reading

Physical Specification

 $\begin{array}{ll} \textbf{IP Rating} & \textbf{IP65 splash-proof (see notes)} \\ \textbf{Operational Range*} & -25\,\% \text{ to } +85\,\% \text{ (-13}\,\% \text{ to } +185\,\% \text{)} \\ \textbf{Case Dimensions} & \end{array}$

 Height
 75mm / 2.95"

 Width
 75mm / 2.95"

 Length
 110mm / 4.33"

 Weight
 655g / 23.1oz

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

Connection Information

The Tinytag Plus Re-Ed Current Logger can be used with a CAB-3239 Tinytag Voltage/XP Input Lead or an ACS-9703 5-Pin Plug.

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

CAB-3239	5-Pin Plug	Function
Red Green	A B	Reference*
White Black	C	Not Connected Common/0V
Yellow	Ē	Signal Input

^{*}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 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.

Notes

Battery Type (Logger) 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.

Battery Type (XP) 8 x AA 1.5V Alkaline batteries

Replacement Interval Logging interval and sensor type

ependant.

XP Battery Capacity 2500mAh (typical)

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 IP65 rating is valid only when the unit's connector cap and input cable are fitted.

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

The 12V line is an output from the logger that changes state when a reading is taken.

This line goes from 0v to +12V, for approximately 8 seconds, before a reading is taken (the line goes back to 0V when the reading cycle is complete).

The Reference line does 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.

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.

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 a Quality Management System which conforms to BS EN ISO 9001:2000. The scope of the system covers the manufacture, design and supply of data loggers and their associated software, accessories and services.









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Required and Related Products

To use this data logger you will also require a cable:

CAB-3239: Tinytag Voltage/XP Input Lead

or a ACS-9703: 5-Pin Plug

One of the following pieces of software:

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

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

Further related products:

CAB-0007: Tinytag PC Serial Download Cable SER-9540: Tinytag Plus Re-ed XP Service Kit