Gemini
DATA LOGGERS

Tinytag

Tinytag Plus 2 Current Logger (0.15 to 200A AC)

TGP-4810

Issue 4
17th October 2014
E&OE

The TGP-4810 measures current from 0 to 200A AC and is ideal for mains and power consumption monitoring.

The unit is housed in a robust, durable case and features high reading resolution and accuracy, a large memory, a fast offload speed and a low battery monitor.

This unit is supplied with a current clamp suitable for conductor sizes up to 20mm.
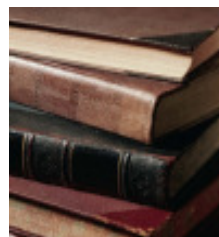
Popular Applications

• Mains Monitoring

• Power Consumption Monitoring

Features

• 0.15 to 200A AC Current data logger
• 32,000 reading capacity
• User-programmable logging interval
• 2 user-programmable alarms
• Delayed start options
• 3 stop options
• Robust case
• User-replaceable battery

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Features

Total Reading Capacity	32,000 readings
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	0.15 to 200A AC
Frequency Range	40Hz to 10kHz
Maximum Current	240A AC*
Resolution	10mA
Accuracy	+/-1.5A @ 10A
	+/-2.5A @ 40A
	+/-7A @ 200A

*The measuring time between 200 and 240A should be limited to 10 minutes on, followed by 30 minutes off.

Physical Specification

Data Logger (TGP-4810)

Operational Range*	-25℃ to +85℃ (-13℉ to +185℉)
Logger Case Dimensions	
Height	34mm / 1.34"
Width	59mm / 2.32"
Depth	80mm / 3.15"
Weight	110g / 3.9oz

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

Current Clamp (ACS-0003)

Operational Range**	-10℃ to +55℃ (14℉ to +131℉)
Clamp Dimensions	
Length	135mm / 5.31"
Width	35mm / 1.38"
Height	65mm / 2.56"
Weight	180g / 6.35oz
Lead Length	1.5m
Conductor Size	20mm (maximum)

**The Operational Range stated above indicates the physical limits to which the clamp 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 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-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 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 passed over the label, the green LED will light briefly to indicate that the unit has been activated. Once activated, 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.

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Required and Related Products

To use this data logger you will require 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-5000: Tinytag Alarm Box
ACS-6000: Trigger Start Magnet

data sheet