

Tinytag Plus 2 Current Clamp Data Logger (0 to 200A AC)



The TGP-4820 measures single phase AC current from 0 to 200A and is ideal for mains power monitoring and for determining when equipment is being used.

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

This logger is supplied with a clip-on current clamp suitable for conductor sizes up to 28mm.

The data logger is started, and data viewed, using the popular Tinytag Explorer software.

Features

- 0 to 200A AC Current data logger
- 208,320 reading capacity
- User-programmable logging interval
- 2 user-programmable alarms
- Delayed start options
- Robust case
- User-replaceable battery

Popular Applications

- Current monitoring
- Up/down time of equipment
- Fault finding
- Equipment spot-checks

Tinytag Plus 2 Current Clamp Data Logger (0 to 200A AC)

Features

Reading Capacity	208,320 readings
Memory type	Non Volatile
Logging Interval	1 second to 10 days
Start Options	Immediate Delayed (relative or absolute, up to 45 days) Magnetic switch
Measurements	At the end of each interval Minimum Maximum
Stop Options	When full Run indefinitely (overwrite oldest data)
Offload	Stopped or whilst logging
Alarms	2 fully programmable; latching

Reading Specification

Reading Range	0A to 200A AC
Frequency Range	50Hz to 400Hz
Resolution	10mA
Accuracy	±2.5% ±0.5A @ 50Hz to 60Hz ±2.8% ±0.5A @ 60Hz to 400Hz

If the logger is used in an RF field with a strength of 1V/m, the overall accuracy is the specified accuracy ± 5% of range. The logger is not specified for use in RF fields with a strength greater than 1V/m.

Physical Specification

Data Logger (TGP-4820)

Operational Range*	-25°C to +85°C (-13°F to +185°F)
Logger Case Dimensions	
Height	34mm / 1.34"
Width	59mm / 2.32"
Depth	80mm / 3.15"
Weight	100g / 3.53oz

Current Clamp (ACS-0006)

Operational Range*	0°C to 40°C (32°F to 104°F)
Clamp Dimensions	
Length	158mm / 6.22"
Width	65mm / 2.56"
Height	33mm / 1.3"
Weight	215g / 7.59oz
Lead Length	1.1m / 3' 7.31"
Conductor Size	28mm / 1.1" (maximum)

*The Operational Range stated above indicates the physical limits to which the item 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

This logger is user serviceable and a service kit containing a replacement battery, seal and desiccant pack can be ordered using the part number **SER-9500**.

Battery Information

The battery fitted in this product is a single cell containing less than 1g of lithium and meets the requirements of the UN Manual of Tests and Criteria, Part III, Subsection 38.3.

Recommended Battery Types	Tekcell SBAA02P Eve ER14250
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The logger will operate with other ½AA 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 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.

Trigger Start

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

Warranty

This product carries a manufacturing defects warranty of 12 months from the date of purchase. Units returned under warranty will be repaired or replaced at the manufacturer's discretion. This warranty does not cover mishandling, modification or battery replacement and is subject to our standard Terms and Conditions of Sale, a copy of which can be found at www.tinytag.info.

Approvals

Gemini Data Loggers (UK) Ltd. operates a Business Management System which conforms to ISO 9001 and ISO 14001.



Required and Related Products

Required Parts

To use this data logger you will require a copy of the following software:

SWCD-0040: Tinytag Explorer software

and a

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

These items can be ordered together in a pack, which has the part number SWPK-7-USB.

Further Related Products

ACS-0006: Replacement Current Clamp for TGP-4820 (a clamp is supplied with the logger)

SER-9500: Tinytag Data Logger Service Kit

ACS-6000: Trigger Start Magnet