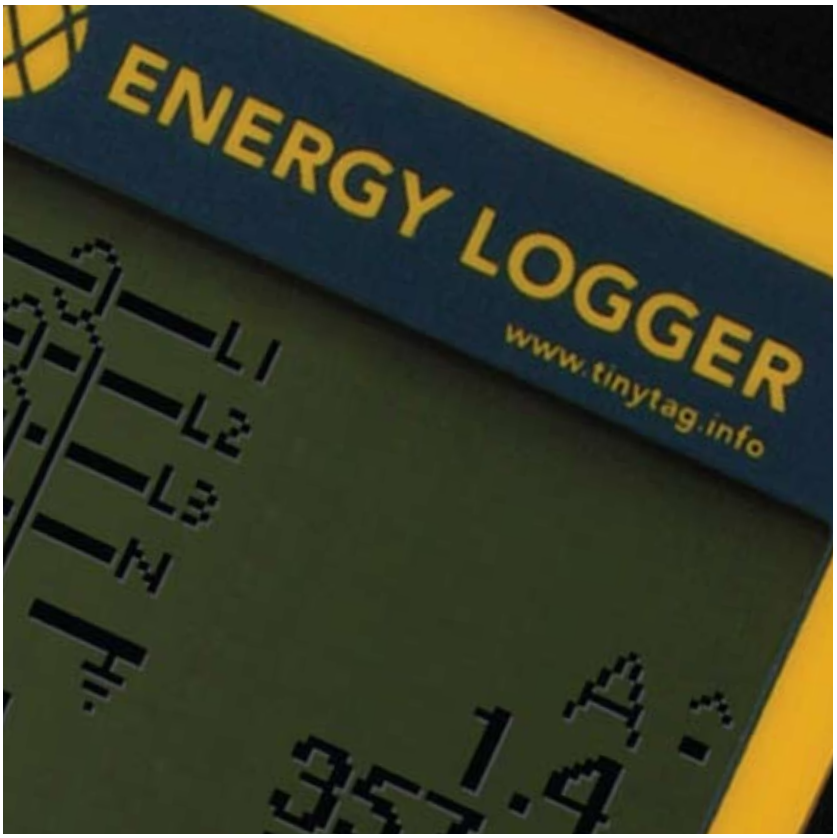
Tinytag

Tinytag Data Loggers

Gathering Quality Data



ENERGY **LOGGER**

PRODUCT GUIDE

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Tinytag Energy Logger

Accurate, Straightforward Energy Monitoring

- Easy to use
- Highly accurate
- Safe and non-invasive
- Small, portable and lightweight
- Cost-effective
- Single and three phase monitoring

With energy costs rising all the time, and effective evaluation of energy efficiency frequently a key factor in achieving environmental or sustainability targets, accurate monitoring of energy usage is becoming increasingly important for many organisations.

The Tinytag Energy Logger is the ideal solution for safely and simply monitoring power usage. The unit's flexibility enables it to monitor individual pieces of equipment and sub-meters right through to complete premises and installations. Suitable for monitoring single or three phase power supplies, it can be used for spot checks or for longer term assessment.

The Energy Logger combines the level of performance required by experts with the simplicity of use required by those who are new to energy management.

By providing an accurate record of energy usage, the logger enables the rapid identification of power hungry or inefficient equipment, peak load and unnecessary idling times - in turn enabling effective measures to be taken to reduce electricity bills and allowing cost savings through implementation of new equipment, processes and procedures.

The logger will prove an essential tool for organisations aiming for a reduction in energy consumption and assist them with their objectives for achieving or maintaining the ISO 14001 environmental standard.

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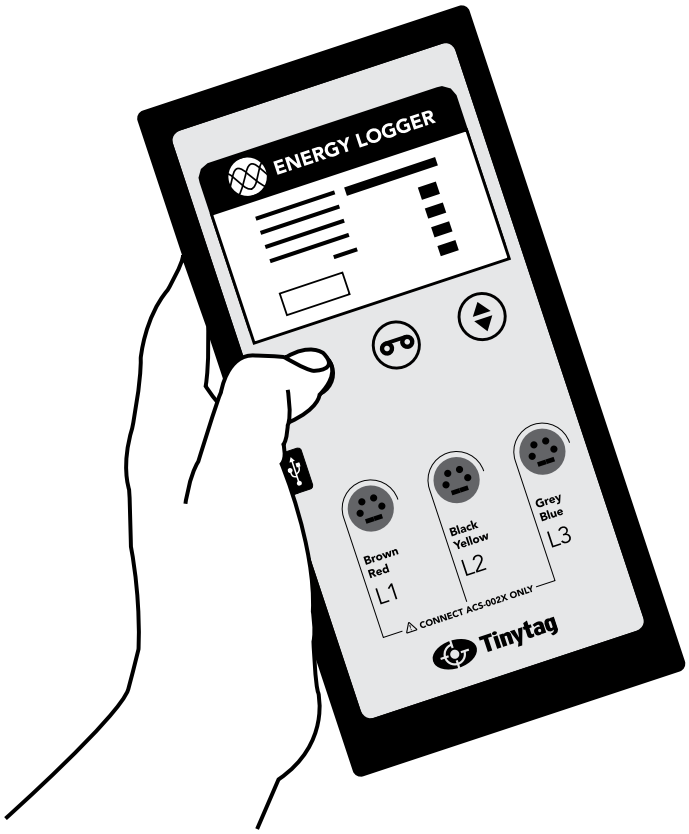
Key Features

Portable: supplied in its own carry case, the unit is small and lightweight making it ideal for use in on-site visits.

Flexible coils for quick and easy use: current is measured using flexible coils that are clipped easily around conductors (where larger rigid clamps may not fit) and the voltage reading is taken from a standard mains cable.

Self-configuring: automatic user prompts display step-by-step instructions for setting up the unit. Once connected the unit will self-configure and current, voltage and power readings will be displayed.

On-site PC not required to start logging: simply press a button on the logger and logging can be started and stopped multiple times to allow different pieces of equipment to be monitored in one operation, without the need to save data to a computer at the end of each logging run.



Display: the unit's display shows instantaneous RMS current (A) from all three phases, the instantaneous RMS voltage (V), an instantaneous overall power figure (kW) and a power factor for all three phases.

Automatic software calculations: when data is downloaded in the Tinytag Explorer software, the following information is calculated and displayed:

- Peak and average current
- Peak and average power
- Overall peak and average power
- Energy usage information (kWh)
- A power factor for each phase

Simple download, display and management of data: data is viewed and managed with Tinytag Explorer software and can be exported to spreadsheet programmes such as Excel. For profiling buildings, data can be combined with temperature and relative humidity data from other loggers in the Tinytag range.

High accuracy: the logger has a typical accuracy of 2% when used in applications containing a combination of resistive, inductive and switched loads.

Records:

- RMS current – instantaneous, peak and average
- RMS voltage
- Power (kW) – instantaneous, peak and average
- Power factor
- Energy usage (kWh)

Specification:

Voltage, single and three phase current and power monitoring.

- Current: 2000A AC RMS (non-invasive coils)
- Voltage: 200-250V AC (standard mains lead)
- Typical accuracy 2%

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