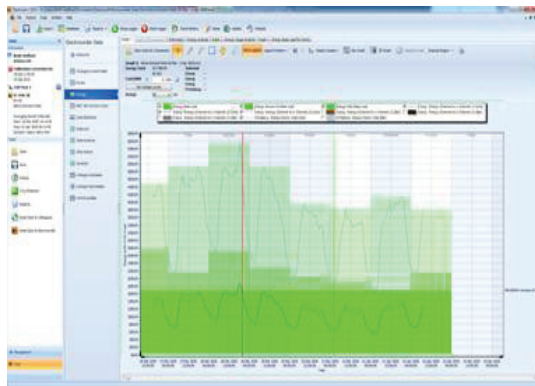
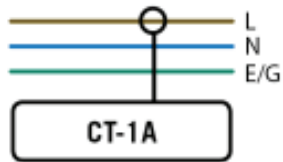
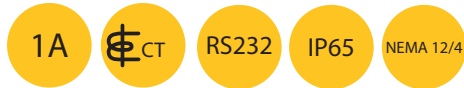


ELECTROCODER

Model: CT-1A

AC Current Logger



Single channel current, 0.1A to 100A, model dependent

Constant Sampling technique; misses very little data

Complete with Electrosoft energy analysis software

Sealed to IP65/NEMA 12/4



- Enables users to record current and energy data.
- Records load currents up to 100Aac, range is model dependent.
- One input channel, A1.
- Record I_{Avg} , I_{Max} & I_{Min} . Data stored in non-volatile memory.
- Free software, Electrosoft.
- Recorded data is uploaded to a PC for analysis with Electrosoft.
- Memory capacity of 32,000 (true RMS) values per channel (10bit), up to 300 days continuous recording.
- Selectable averaging period to suit each situation, accurate to $\pm 2\%$ of reading.
- Kit includes Logger, current transformer, Serial Lead, software, & Plug in mains 12Vdc PSU.
- Various models available:-
 - CT-1A-TN (0.1 – 10A)
 - CT-1A-FY (0.5 – 50A)
 - CT-1A-HD (1 – 100A)
- Order code:-
 - CT-1A-**-5H-IP65-KIT (50Hz)
 - CT-1A-**-6H-IP65-KIT (60Hz)

ELECTROCORDER

Model: CT-1A

The ElectroCorder range is designed to allow users to cost effectively monitor their voltage supply, the ElectroCorder enables users to log current or energy usage over a prolonged period. The CT-1A is widely used for energy audits in homes, offices and businesses and earth fault logging in industry.

Setting up the ElectroCorder is easy, suitable for non-technical users. Using the supplied Windows software, Electrosoft; input the location details for the logging and choose the logging period. Electrosoft will print the necessary dispatch / return documentation including user instructions. All data is included in a database of dispatches and returns, allowing you to track location of multiple loggers.

Why is the ElectroCorder better than other similarly priced competitors? The ElectroCorder range use a constant sampling technique, unlike the single reading of competitors. When the loggers start to record, they sample every channel 16 times per cycle, a cycle is 16ms at 60Hz and 20ms at 50Hz. At the end of each averaging period, 3 quantities are saved for each channel, the True RMS average, the Max, which is the highest cycle value during the period and the Min, lowest cycle value. This means that it will record all the peaks and troughs which are one cycle or longer.

ElectroCorder will start recording when the green start button is pressed and stop recording when the memory is full. Recording is shown by a flashing green light and completion by a red light.

The current levels are stored with dates and times. With the back-up battery, the ElectroCorder can continue to record for 1 week on battery power alone and indefinitely with the 12V PSU

The stored data is uploaded to a PC via the supplied RS232 cable. Using Electrosoft, the recorded current levels, dates & times can be viewed in both tabular and graphical form, exported to a spreadsheet or saved to file.

Graphs can be printed showing the recorded levels and the allowable tolerance bands. Electrosoft also provides an internal database which effectively manages the distribution of multiple units.

On the logger, recording is signified by a flashing green light. A red light advises users that the unit has completed recording.

This model is specifically designed to monitor one current channel. Allowing you to monitor the loading and energy consumption of the installation. There are many models of ElectroCorder, to suit many logging situations and user's requirements.

The product is supplied with one current transducer. Several models are available, the three standard CT-1A and have a range of 0.1 to 10A, 0.5 to 50A and 1A to 100A. Other ranges may be factory set.

TECHNICAL SPECIFICATIONS (subject to change without notice)

Recorded values	I_{avg} , I_{max} & I_{min} on 1 channel
Current Input socket types (all channels)	Hard-wired through cable gland
I_{max} & I_{min} time resolution	Always one cycle (50/60 Hz), independent of selected averaging period
Supplied current sensor accuracy	+/-2% of range
Current measurement range (Irms)	0.1A to 10A, 0.5A to 50A, 1A to 100A, model dependent
Current measurement accuracy	2% of range, typically
Sampling frequency (all channels)	16 samples per cycle 800Hz @ 50Hz or 960Hz @ 60Hz
Data recorded	Average, max & min current values during the averaging period
Memory capacity	64kB able to record 32,000 current levels
Memory type	Non-volatile SEEPRM
Memory - averaging period & duration	1 sec to 60 mins (1 sec gives 2 hrs logging, 60 min gives 300 days logging)
Real-time clock accuracy	Greater than 0.001%
Input Lead Length	Metric 350mm Imperial/ English 14" (inches)
Battery life while logging	Unlimited - 12Vdc PSU option & battery backup or 5 days on battery power only
Battery Type	Unit contains one 9V Alkaline batteries (E-Block, PP3, 1604A)
Communications Interface type	RS232 Serial
Environmental (temp & sealing)	-10C to +40C or +14°F to +104°F
Dimensions & Weight	Metric 100 x 85 x 65mm & 300g or English/Imperial 4" x 3" x 2.5", 11 oz
Standards	Recording - EN50160: 1994

WARRANTY & CALIBRATION - All Acksen Ltd products carry a minimum of a one year's back to base warranty covering manufacturing defects and component failures. Each unit is individually calibrated during testing.

CONFORMITY - Emissions EN55022:1994B, (EN50081-1:1992). Immunity EN50082-2:1995, following the provisions of EMC directive 89/336/EEC. Recording std EN50160:1994. LVD 72/23/EEC with respect to EN60065. (IEC-61010). All models certified (light industrial, 3V/m).

ORDERING - CT-1A-xx-**-IP65-KIT – includes logger (1), current transformer CT (1), Serial lead (1), software CD (1), 12Vdc PSU (1) and carry case (1).

To specify your ElectroCorder select various options and enter into the boxes in order to create an accurate product code. For example a 50A, 50Hz model would have the part number

CT-1A-FY-5H-IP65-KIT

Select Options

Build model # :

CT-1A — — — IP65 — KIT

Current Range	
TN	0.1A to 10A
FY	0.5A to 50A
HD	1A to 100A

System Frequency	
5H	50Hz
6H	60Hz

Current Range

System Frequency



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.