

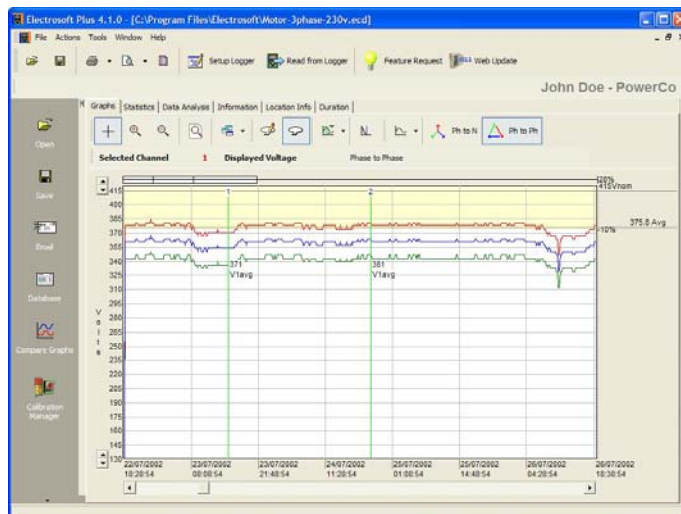
# Single & Three Phase Current Logger EC-3CT

- ◆ Enables current and load problems to be highlighted and investigated.
- ◆ Allows users to accurately record load currents up to 300Aac.
- ◆ Three current input channels (A1, A2 & A3).
- ◆ Records  $I_{Avg}$ ,  $I_{Max}$  &  $I_{Min}$  on all 3 channels. Data stored in non-volatile memory.



Photo shows the Electrocorder EC-3CT, with CT's.

- ◆ Free software, Electrosoft.
- ◆ Recorded data is uploaded to a PC for analysis with Electrosoft.
- ◆ Memory capacity of 32,000 (true RMS) values per channel (10 bit), up to 75 days continuous recording.
- ◆ Selectable averaging period to suit each situation, accurate to <1% of range.
- ◆ Accuracy:-  
2 – 10A < 5% of reading.  
11 – 50A < 3% of reading.  
51 – 300A < 1% of reading.
- ◆ Kit includes: EC-3CT logger, case, Electrosoft, three 'current transducers' & USB lead.



Electrosoft - in English, Croatian, Czech, Finnish, French, German, Italian, Polish, Portuguese, Spanish, Swedish.

- ◆ Order code:  
EC-3CT-50-KIT (50Hz)  
EC-3CT-60-KIT (60Hz)

**ELECTROCORDER**

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# Single & Three Phase Current Logger EC-3CT

The Electrorecorder range is designed to allow electrical distribution companies to cost effectively monitor single and three loads. This product will allow single and 3 phase loading and balancing problems to be highlighted quickly.

Setting up the Electrorecorder EC-3CT is easy, suitable for semi-technical staff. Using the supplied (free) Windows software, Electrosoft; the location's details are input to the unit's memory and stored. Electrosoft will then print documentation allowing users to record and/or pass on delivery instructions to colleagues. All data is also stored in a database of dispatches and returns, which tracks the whereabouts of all units.

**Memory modes available:** The Electrorecorder can be set to start recording when it is connected and the 'start' button pressed and stop when the memory is full. Should you have any other needs please contact Acksen Ltd, tel: +44 (0)870 225 1790 or contact your local distributor.

When recording the Electrorecorder will store the average current over the period chosen (1 sec to 15 min), it will also record the highest (max) & lowest (min) cycle values during that period.

The current levels are stored with dates and times. With the back-up battery, the Electrorecorder can continue to record for 6 months. An external 12Vdc PSU input is available, to allow for prolonged logging without batteries.

The stored data is uploaded to a PC via the supplied USB 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. These results may then be discussed with the customer. **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 steady red light advises users that the unit has completed recording.

**This model is specifically designed to accurately monitor one, two or three current channels. Allowing you to monitor the loading and energy consumption of the installation.** There are many models of Electrorecorder, to suit many logging situations and user's requirements.

The product is supplied with three current transducers.

TECHNICAL SPECIFICATIONS (subject to change without notice)	
Recorded values	Iavg, I <sub>max</sub> & I <sub>min</sub> on 3 channels.
Current Input socket types (all channels)	4mm shrouded plugs and sockets.
I <sub>max</sub> & I <sub>min</sub> time resolution	Always one cycle (50/60 Hz), independent of selected averaging period.
Supplied current sensor output	1mVac per 0.1Aac input.
Current measurement range (Irms)	2A to 300A
Current measurement accuracy	<b>2A – 10A &lt; 5%, 11A – 50A &lt; 3%, 51A – 300A &lt; 1%.</b>
Sampling frequency (all channels)	16 samples per cycle <b>800Hz @ 50Hz or 960Hz @ 60Hz</b>
Data recorded	Average, max & min current values during the averaging period
Memory capacity	192kB able to record 32,000 current levels per channel/phase.
Memory type	Non-volatile SEEPR0M
Memory - averaging period & duration	1 sec - 15 mins (1sec average gives 2 hrs of logging, 15min average gives 75 days)
Real-time clock accuracy	Greater than 0.001%
Current Sensor Input Lead Length	<b>Metric</b> 1.2 metres <b>Imperial</b> 4' (4 feet)
Battery life while logging	Unlimited – 12Vdc PSU option & battery backup or 3 months while unpowered.
Battery Type	Unit contains <b>fourteen</b> 9V Alkaline batteries (E-Block, PP3, 1604A).
Communications Interface type	USB, optically isolated to 5,2kV.
Environmental (temp & sealing)	-10C to +40C or +14°F to +104°F
Dimensions & Weight	<b>Metric</b> 250 x 175 x 70mm & 1kg <b>Imperial</b> - 10" x 6" x 3" & 2.2lbs
Standards	Recording - EN50160: 1994 - CAT II.

**WARRANTY & CALIBRATION** - All Acksen Ltd products carry a minimum of a one year's 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 **CE** certified (light industrial, 3V/m).

**ORDERING** - EC-3CT-\*\*-KIT – inc. case, software, serial lead, input leads, current transducer & user guide.

	Description	ENVIRONMENTAL SEALING	ORDER CODE
1	<b>KIT incs. items 2-6 EC-3CT-** (50 or 60 for 50/60Hz)</b>	<b>IP43</b>	<b>EC-3CT-**-KIT</b>
2	Replacement – Logger (includes. 3 x item 5) (50 or 60 for 50Hz or 60Hz)	<b>IP43</b>	EC-3CT-**-LOG
3	Replacement - Carry Case	<b>N/a</b>	EC364-xK-CC1
4	Replacement - USB Lead	<b>IP43</b>	EC-USB-01
5	Replacement Current Transducer	<b>IP43</b>	EC-300A-01
6	Replacement – Batteries (9 per unit)	<b>Internal to logger</b>	EC364-xK-BAT
7	Optional Plug-in mains PSU (12Vdc)	<b>None</b>	EC-3CT-12VPSU



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YOUR LOCAL DISTRIBUTOR: