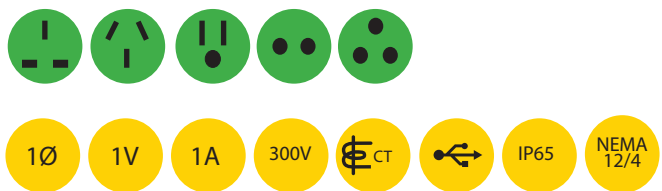
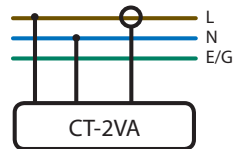


Electrocorder Model: CT-2VA



One voltage channel
300Vac

Two models available, 60Aac
or 400Aac range.

Complete with Electrosoft
energy analysis software

Sealed to IP65/NEMA
12/4 as standard

Allows users to monitor & resolve single-phase voltage
and current issues

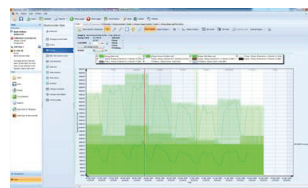
Data stored in non-volatile memory

Memory capacity of 32,000 (True RMS) values per channel
(10bit), up to 300 days continuous recording

Selectable averaging period from 1 second to 60 minutes

Accurate to $\pm 2\%$ of range, typically

Kit includes data logger, voltage input lead, one clamp-on CT,
USB lead, Electrosoft software and carry case



The advantage of the Electrocorder products over most others is
that our Data Loggers constantly sample information (recording
the Minimum, Maximum and Average reading) over the set period,
many other products only take 'snap shots' of what is going on
and can miss 99.9% of the data that is critical to your analysis.

The Electrorecorder range is designed to allow electrical engineers cost effectively monitor single and three phase loads. This model is specifically designed to monitor one voltage channel and one current channel. Allowing users to determine if a voltage problem is load related or not.

Setting up the Electrorecorder CT-2VA is easy, suitable for non-technical staff. Using the supplied (free) 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 the location of multiple loggers.

Why is the Electrorecorder better than other similarly priced competitors? The Electrorecorder 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.

The voltage and current levels are stored with dates and times. With the back-up battery, the Electrorecorder can continue to record for months.

The recorded data is uploaded to a PC via the supplied USB lead. Using Electrosoft, the recorded current levels, with dates and times that 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.

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

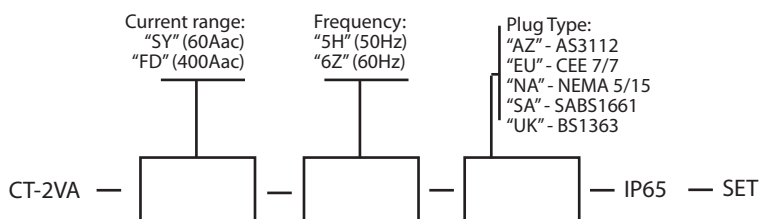
Two models are available. The CT-2VA-SY has a range of 0.4Aac to 60Aac, CT-2VA-HD has a range of 4Aac to 400Aac.

Technical specifications (subject to change without notice)

Measurement range (Vrms)	0Vac to 300Vrms
Maximum channel input voltage	300Vrms
Voltage Input	One voltage input (L1)
Voltage measurement accuracy	±2% of reading (10 bit) within 90Vac - 300Vrms otherwise ±3%. (50/60Hz ±2%)
V_{min} , V_{max} , I_{max} & I_{min} time resolution	Always one cycle (50/60 Hz), independent of selected averaging period
Current measurement range (Irms)	0.4Aac to 60Aac or 4Aac to 400Aac CT, other ranges can be factory set
Current Input	One current input (A1)
Current measurement accuracy	±2% of range, typically
Current sensor dimensions	Diameter when closed – 30mm or 1.2"
Sampling frequency (all channels)	16 samples per cycle 800Hz @ 50Hz or 960Hz @ 60Hz
Data recorded	Average, max & min voltage & current values during the averaging period
Memory capacity	128kB able to record 32,000 voltage & current levels per channel
Memory type	Non-volatile SEEPR0M
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 2 metres Imperial/English 6' 6" (6 feet, 6 inches)
Battery life (while plugged in)	Unlimited – While unplugged battery life is typically 9,000 hours/1 year
Battery type	Unit contains one 9V Alkaline battery (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. Sealed to IP65, NEMA 12/4
Dimensions & weight	Metric 145 x 90 x 45mm & 500g Imperial/English – 5.5" x 3.5" x 3" & 1lb
Standards	Recording - EN50160: 1994 - CAT III, maximum input voltage 300Vac rms

Determining product order codes:

To specify your Electrorecorder select various codes and enter into the boxes in order to create an accurate product code. For example: CT-2VA-SY-5H-UK-IP65-SET.



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).