



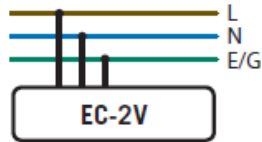
ELECTROCODER

Model: EC-2V

Two Channel Voltage Logger

2Ø 2V 300V IP65

NEMA 12/4

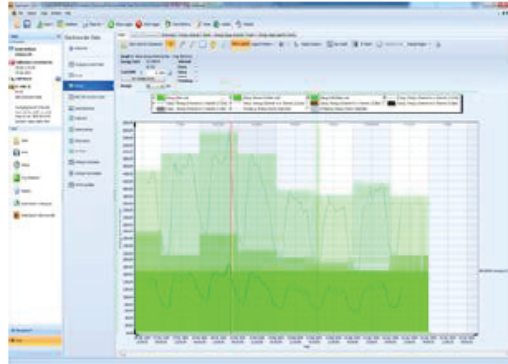


Two Phase 300Vac, 2 channels, Live/Hot to Neutral and Earth/Ground to Neutral

Constant Sampling technique; misses very little data

Complete with Electrosoft energy analysis software

Available as IP65/NEMA 12/4



- React to domestic voltage complaints within 24 hours - maximum service!
- Mail or deliver it to your customer and free-up engineering time.
- Store Electrocoders in your field engineer's vehicles, radio through complaints for instant delivery.
- Database in software ensures effective management of distributed units.
- Kit includes Logger, Carry Case, Electrosoft, & Serial Lead.
- Records up to 226 days of average voltage, max & min with date & time.
- Miniature logger enables real voltage problems to be highlighted quickly for further investigation.
- Free-up expensive inventory which would otherwise be used for domestic complaints.



ELECTRORECORDER

Model: EC-2V

The Electrorecorder range is designed to allow electrical distribution companies to cost effectively monitor their customers' supply, the Electrorecorder enables real voltage problems to be highlighted quickly for further investigation using traditional recorders.

Setting up the Electrorecorder is easy, suitable for non-technical staff. Using the supplied Windows software, Electrosoft; the customer's name and address are input to the unit's memory and stored.

The Electrorecorder is designed such that it may be mailed to the customer in the reusable mailing case. Electrosoft will also print the necessary dispatch / return documentation including customer instructions. All data is included in a database of dispatches and returns.

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 Electrorecorder conforms to the European recording standard EN50160: 1994 - "Voltage characteristics of electricity supplied by public distribution systems."

When recording the Electrorecorder will store the average voltage over the period chosen (1 sec to 60 min), it will also record the highest (max) & lowest (min) cycle values during that period.

The EC264 can record two channels - Live (Hot) to Neutral and Neutral to Earth (Ground). Allowing better diagnosis of poor or lost neutral connections.

The voltage levels are stored with dates and times. With the back up battery, the EC264 can record for up to 8 months during power cuts.

When the unit has been returned to the power company, the stored data is uploaded to a PC via the supplied RS-232 cable. Using Electrosoft, the recorded voltage 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.

The product is supplied with one Rogowski transducer. Several models are available, the standard EC-1A and has a range of 10 – 1,000 A. Other ranges may be factory set.

For example: A customer complains to you that their lights are dimming. Using Electrosoft, input the customer's details into an Electrorecorder, print

TECHNICAL SPECIFICATIONS (subject to change without notice)

Measurement range (both channels)	30V to 300Vac measurement is between live/hot to neutral & neutral to earth/ground are taken
Measurement accuracy (both channels)	±1% of reading (within 70 - 300Vac); ±5% below 70Vac
V _{max} & V _{min} time resolution (both channels)	Always one cycle (50/60 Hz), independent of averaging period set.
Sampling frequency (both channels)	32 samples per cycle (1920Hz (60Hz) / 1600Hz (50Hz))
Data recorded (both channels)	V _{avg} , V _{max} & V _{min} (cycle) value during averaging period (Live/Hot to Neutral & Neutral to Earth/Ground)
Memory capacity	32,000 Voltage levels (up to 226 days @ 60 minutes)
Memory type	Non-volatile EEPROM
Memory endurance	100,000 - 1,000,000 read/write cycles
Real-time clock accuracy	Greater than 0.001%
Averaging period (user selectable)	1 sec to 60 mins (1 sec gives 2 hrs logging, 60 min gives 226 days logging)
Battery life (while plugged in)	Unlimited - mains powered & battery backup (7000 hours, 8 months while unplugged)
Interface type	RS-232 serial, speed 19,200 & 57,600 Baud
Electrosoft Software	Windows (9x, 2000, NT4.0, XP, Vista, Win 7); 800 x 600 min resolution
Operating temperature	14°F to 104°F or -10°C to +40°C
Dimensions & Weight	Metric 4" x 3" x 2.5" or 100 x 85 x 65mm & Imperial/English 11 oz or 300g

WARRANTY & CALIBRATION All Ackson Limited products carry a minimum of a one year 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 (industrial, 3V/m).

ORDERING Electrorecorder System - includes Electrosoft, battery, user guide, RS-232 cable & mailing case (not with IP65 models).

	PLUG STD	COUNTRY	ENVIRONMENTAL SEALING	ORDER CODE
	AS3112, NZ SS 198-1967	Australia, New Zeland	IP65, NEMA 12/4	EC264/ANZ-KIT
	CEE 7/16	Europe	IP65, NEMA 12/4	EC264/EU-KIT
	NEMA 5-15	North America	IP65, NEMA 12/4	EC264/NA-KIT
	BS 1363	United Kingdom & Ireland etc.	IP65, NEMA 12/4	EC264/UK-KIT
	None - Flying lead	All Countries	IP65, NEMA 12/4	EC264/IP65-KIT

RS-232 Serial Lead - ECSL/model number	Mailing Case ECMC01 (plug models only)
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Thank you for reading this data sheet.

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



UK Office

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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.