Electrocorder

Model:
EC-2VA

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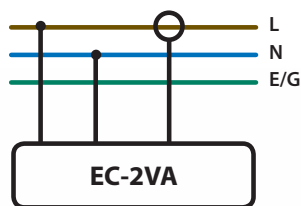
(1Ø) (1V) (1A) (300V) (Rog) (RS-232) (IP65) (||)

One voltage channel 300Vac

One current channel 300Aac

Complete with Electrosoft energy analysis software

Sealed to IP65/NEMA

Allows users to monitor & resolve single-phase voltage and current issues.
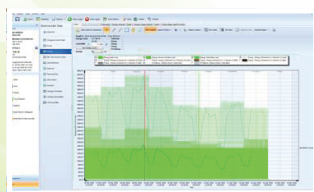
Data stored in non-volatile memory.

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 ±2% of range, typically.

Kit includes data logger, voltage input lead, Rogowski Coil, RS-232 serial lead, Electrosoft software and carry case.

The advantage of 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 EC-2VA is designed to allow electrical engineers to cost effectively monitor single and three phase supplies.

Setting up the Electrocorder EC-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 Electrocorder better than other similarly priced competitors? The Electrocorder range uses 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. 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, the 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 backup battery, the Electrocorder can continue to record for up to a year.

The recorded data is uploaded to a PC via the supplied RS-232 cable. Using Electrosoft, the recorded current levels with dates and 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.

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

Five models are available. The EC-2VA has various plug options available for use in various countries; contact us for more information.

Technical specifications (subject to change without notice)

Measurement Range (Vrms)	0Vac to 300Vrms
Maximum Channel Input Voltage	300Vrms
Voltage Input	One voltage input (L1)
Maximum Channel Input Voltage	Voltage measurement accuracy
V_{min}, V_{max}, I_{max} & I_{min} Time Resolution	Always one cycle (60 Hz), independent of selected averaging period
Current Measurement Range (Irms)	3 – 300A Rogowski, 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 – 145mm or 6"
Sampling Frequency (All Channels)	16 samples per cycle 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 SEEPROM
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	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	RS-232 serial, baud of 19,200, optically isolated to 5,2kV
Environmental (Temp & Sealing/Protection)	-10C to +40C or +14°F to +104°F, Sealed to IP65
Dimensions & Weight	5.5" x 3.5" x 3" & 1lb

Warranty & Calibration
All Accsense Electrocorder products carry a *Lifetime back to base warranty covering manufacturing defects and component failures. Each unit is individually calibrated during testing.
*Refer to website for full terms and conditions.

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).