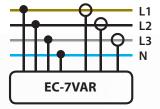
ACCSENSE Simple and Reliable

Electrocorder

Model: EC-7VAR





Three voltage channels 600Vac

Three current channels 400A or 3kA

One Power Factor (Cosφ) channel; phase angle between L1 and A1

Complete with Electrosoft energy analysis software

Sealed to IP65/NEMA 12/4



Records voltage, current, power factor, power and energy.

Records voltage up to 600Vac & loads up to 3kAac.

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 2 seconds to 60 minutes.

Accuracy:

Voltage ±1% of reading Current to ±2% of range, typically

Kit includes data logger, Rogowski transducers, voltage leads, USB lead, Electrosoft software and carry case.



The advantage of Electrocorder products over most others is that our Data Loggers <u>constantly sample information</u> (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.

OCCSENSE Electrocorder Model: EC-7VAR

The Electrocorder range is designed to allow electrical engineers to cost effectively monitor single and three phase loads. This product will allow voltage, load and reactive power problems to be highlighted quickly for further investigation.

Setting up the Electrocorder EC-7VAR is easy, suitable for nontechnical 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 back-up battery, the Electrocorder can continue to record for months.

The recorded data is uploaded to a PC via the supplied USB 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.

The EC-7VAR is specifically designed to monitor one, two or three current channels, as well as one, two or three voltage channels plus Power Factor. Power Factor recorded is the phase angle between L1 and A1.

Other models are available., contact us for more information.

Technical specifications (subject to change without notice)

Recorded Values	V V and V on 2 shannels and I I I on 2 shannels
	V _{avg} , V _{max} and V _{min} on 3 channels and I _{avg} , I _{max} & I _{min} on 3 channels
Voltage Measurement Range (Vrms)	0Vac to 600Vrms (Ph – Ph) or 0V to 300Vrms (Ph – N)
Measurement Accuracy	$\pm 1\%$ of reading, ± 1 Volt. (10 bit) within 100Vac-450Vrms (ph–ph); else $\pm 3\%$. (60Hz $\pm 2\%$)
Maximum Channel Input Voltage	500Vrms (Ph – Ph), 350Vrms (Ph – N) or 850Vpeak
Inputs (Non-Isolated Inputs)	Three phase inputs (L1, L2 & L3) & Neutral (N), non-isolated input channels
Input Socket Types	4mm shrouded 'banana' plugs & sockets, each with insulated crocodile clip
$V_{max} V_{min} I_{max} & I_{min}$ Time Resolution	Always one cycle (60 Hz), independent of selected averaging period
Current Measurement Range (Irms)	400A, 3kA
Current Measurement Accuracy	$\pm 2\%$ of reading, typically (within 10% - 90% of full scale), otherwise 3% of full scale
Current Input Socket Types (All Channels)	Hard-wired through cable glands
Sampling Frequency (All Channels)	16 samples per cycle 960Hz @ 60Hz
Data Recorded	Average, max & min voltage & current values and Power Factor during the averaging period
Power Factor Range And Accuracy (Measured On L1 And A1)	Accurate to \sim 3% between lead 0.5 and 0.5 lag; \sim 6% between 0.5 and 0.3 lead or lag
Memory Capacity & Type	384kB able to record 32,000 values per channel/phase . Non-volatile SEEPROM
Memory - Averaging Period & Duration	2 sec to 60 mins (2 sec gives 4 hrs logging, 60 min gives up to 300 days logging)
Real-Time Clock Accuracy	Greater than 0.001%
Current Sensor Dimensions	Lead length 6'6", sensor length 18" (Open), sensor diameter 6" (Closed)
Input Voltage Lead Length	6' 6" (6 feet, 6 inches)
Battery Life While Logging	Unlimited when connected to voltage
Battery Type	Unit contains four 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, Sealed to IP65

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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).