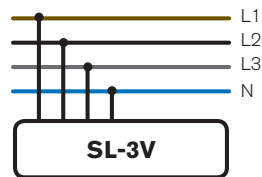


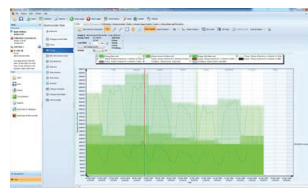
Electrocorder Model: SL-3V



**Three phase; 500Vac
(L1, L2 & L3 to Neutral)
145x89x45mm (6"x4"x2")**

**Complete with Electrosoft
energy analysis software**

**Sealed to IP43 as
standard**



Small size 145x89x46mm, enables voltage problems to be highlighted quickly for further investigation

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

Voltage accurate to $\pm 1\%$ of reading

Kit includes data logger, voltage leads, USB lead, Electrosoft software and a 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.

acksen > Electrorecorder Model: SL-3V

The SL-3V is designed to allow electrical engineers cost effectively monitor single and three phase supplies.

Setting up the Electrorecorder SL-3V 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 levels are stored with dates and times. With the back-up battery, the Electrorecorder can continue to record for up to a year.

The recorded data is uploaded to a PC via the supplied USB lead. Using Electrosoft, the recorded voltage 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.

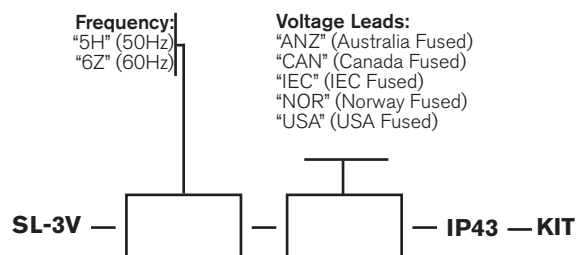
A larger version of the SL-3V is available (EC-3V), the EC-3V does include a phase rotation checker.

Technical specifications (subject to change without notice)

| | |
|---|---|
| Measurement range (Vrms) | 0Vac to 500Vrms (Ph – Ph) or 0V to 300Vrms (Ph – N) |
| Maximum channel input voltage | 500Vrms (Ph – Ph), 300Vrms (Ph – N) or 700Vpeak |
| 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 |
| Measurement accuracy | ±1% of reading (10 bit) within 90Vac - 450Vrms (ph – ph); else ±3%. (50/60Hz ±2%) |
| V _{max} & V _{min} time measurement resolution | Always one cycle (50/60 Hz), independent of selected averaging period |
| Sampling frequency | 16 samples per cycle 800Hz @ 50Hz or 960Hz @ 60Hz |
| Data recorded | Average voltage, max & min voltage-cycle-value during the averaging period |
| Memory capacity | 192kB able to record 32,000 voltage levels per phase |
| Memory type | Non-volatile SEEPROM |
| Memory - averaging period & duration | 1 sec to 60 mins (1 sec gives 2 hrs logging, 60 min gives up to 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 - mains powered & battery backup (8,000 hours, ~1 year while unpowered) |
| Battery type | Unit contains one 9V Alkaline batteries (E-Block, PP3, 1604A) |
| Communications interface type | USB, optically isolated to 5,2kV |
| Electrosoft software | Windows (9x, 2K, ME, NT & XP); 1024 x 768 min resolution |
| Environmental (temp & sealing) | -10C to +40C or +14°F to +104°F. Sealed to IP43 |
| Dimensions & weight | Metric 145 x 89 x 46mm & 300g; Imperial/English - 6" x 3.5" x 2" & 0.6lbs |
| Standards | Recording - EN50160: 1994 - CAT III, maximum input voltage 600Vac |

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: SL-3V-5H-IEC-IP43-KIT.



Warranty & calibration

Acksen Ltd 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).