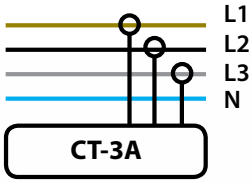
accsense
Simple and Reliable

Electrocorder

Model:
CT-3A



3Ø | 3A | 1000V CAT III | USB | CT | IP65

Three current channels c/w selectable range; 40A and 400A ranges

CT's fit round 30mm cables

Complete with Electrosoft energy analysis software

Sealed to IP65/NEMA 12/4

Enables 3 phase loading and/or balancing problems to be highlighted quickly as well as assessment of energy usage over time.

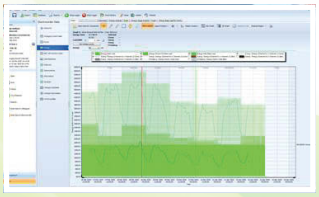
Data stored in non-volatile memory.

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 minute.

Accuracy:-
0.5A-40A, ±1A
40-400A, ±2A

Kit includes data logger, current transducers, USB lead, Electrosoft software and a 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.

accsense Electrocorder Model: CT-3A

The CT-3A is specifically designed to accurately monitor one, two or three current channels allowing you to monitor the loading and/or balancing problems and energy consumption of an installation.

Setting up the Electrocorder CT-3A 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 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. 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 current levels are stored with dates and times. With the backup battery, the Electrocorder can continue to record for 2 months. An external 12Vdc PSU input is available, to allow for prolonged logging without batteries.

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

The CT-3A-RS has two user selectable current ranges 0.5A to 40A and 4A to 400A. If you require a higher current ranges of up to 3kA, consider the EC-3A-RS.

Technical specifications (subject to change without notice)

Recorded Values	I_{avg}, I_{max} & I_{min} on 3 channels
Current Input Socket Types (All Channels)	4 pin shrouded plugs and sockets
Supplied Current Sensor	CAT II 600V, with 1mVac output per 1Aac input, 30mm aperture
Current Measurement Range	RS model is 0.5Aac - 40Aac and 4Aac - 400Aac
Current Measurement Accuracy	0.5Aac - 40Aac, ±1Aac typically and 4Aac - 400Aac, ±2Aac typically
I_{max} & I_{min} Time Resolution	Always one cycle (50/60 Hz), independent of selected averaging period
Supplied Current Sensor Output	1mVac per 0.1Aac input
Current Sensor Input Lead Length	4' (4 feet)
Sampling Frequency (All Channels)	16 samples per cycle 800Hz @ 50Hz or 960Hz @ 60Hz
Data Recorded	Average, max & min current values during the averaging period
Memory Capacity	192kB able to record 32,000 current levels per channel/phase
Memory Type	Non-volatile SEEPROM
Memory-Averaging Period And Duration	1 sec - 60 mins (1 sec gives 2 hrs of logging, 60 mins gives 300 days)
Real-Time Clock Accuracy	Greater than 0.001%
Battery Life While Logging	Unlimited – 12Vdc PSU option & battery backup or 3 months while unpowered
Battery Type	Loggers contains six 1.5V Alkaline 'C Cell' batteries (IEC-LR14, ANSI/NEDA-14A)
Communications Interface Type	USB, optically isolated to 5,2kV
Environmental (Temp & Sealing)	-10C to +40C or +14°F to +104°F. Sealed to IP65
Dimensions & Weight	10" x 7" x 8" & 4lb
Standards	Recording - EN50160: 1994 - 1000V CAT III, 600V CAT IV

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).

8437 Mayfield Rd.
Chesterland, OH 44026
T: 800.956.4437
F: 440.729.2586

accsense.com