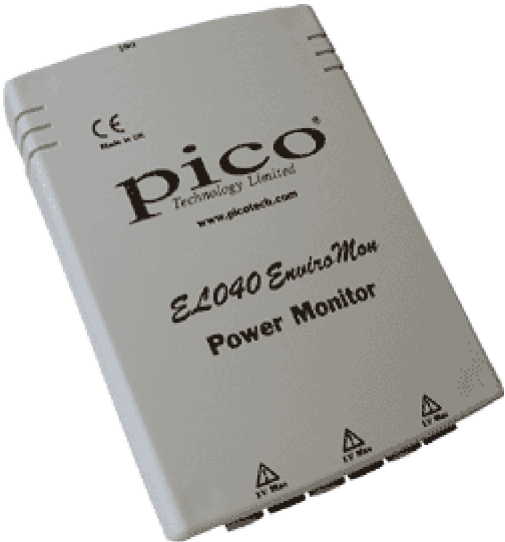


EL040 Power Monitor

With the present drive towards energy efficiency the EL040 will find uses both at home and in industry. In industry currents can be monitored enabling more accurate costing to be placed on different tasks and find out exactly where a high percentage of current consumption is being made. Armed with this information decisions can then be made on methods of reducing or eliminating this in-efficiency, so saving money.

The EL040 enables an EnviroMon network to monitor three AC current signals. AC current clamps or current transformers are used to provide an input to the EL040. The EnviroMon can then be used to monitor current consumption or produce alarm conditions when consumption rises above or falls below preset limits.

A kit is available which contains all of the required products that you will need to start monitoring current.



Number of channels	3
Sensor type	Current clamp
Max. input voltage	1V RMS AC
Input Impedance	>1Mohm
Frequency range	20Hz to 1kHz
Accuracy	$\pm 1\%$ (0 to 200mV)* $\pm 2.5\%$ (200mV to 1V)
Operating temperature	0degC to +70degC
Input connector	4mm banana

* When using a 200 Amp current clamp which measures 1 Amp per mV.

TA011 300 Amp a.c. current clamp

Not being powered by batteries the TA011 is ideally suited to applications where current consumption is being monitored over long periods of time.

Removing the need to check the condition of the batteries regularly, makes the TA011 ideally suited for use with the EL040 power monitor when monitoring current consumption over months or even years.

Current range	0.1A to 300A a.c. RMS
Accuracy:	
0.1 to <50A	$\pm 3.0\%$
50A to 300A	$\pm 2.0\%$
Output voltage	1mV a.c. per 1 Amp a.c.
Operating temperature	0degC to 50degC
Maximum conductor size	29mm



Current monitoring kit

The current monitoring kit contains everything that you need to start data logging currents from up to three separate

circuits. It is ideal for measuring and balancing 3 phase supplies as well as machine monitoring and energy efficiency studies.

The current monitoring kit offers a cost saving over buying all of the products separately. The kit includes the following:

- [EL040](#) power monitor
- [EL005](#) logger
- Three [TA011](#) AC current clamps
- Power Supply
- EL003 network cable
- [PC software](#)



The contents of the Current Monitoring kit