



ESCOT Clip on Metering System

The ESCOT system provides a new approach to automatic energy data capture by using CTs which transmit a low voltage signal directly proportional to energy consumption. Low specification signal cables can be routed throughout a building rather like telephone wires, suspended over ceilings and via risers/cupboards to collator units.

The major advantage of using clip-on ESCOT CT's is that unlike standard sub-meter installations, no fused 240V or 415V connections have to be made at each remote meter point. This offers enormous cost savings for monitoring and targeting applications particularly in multi-storey buildings.

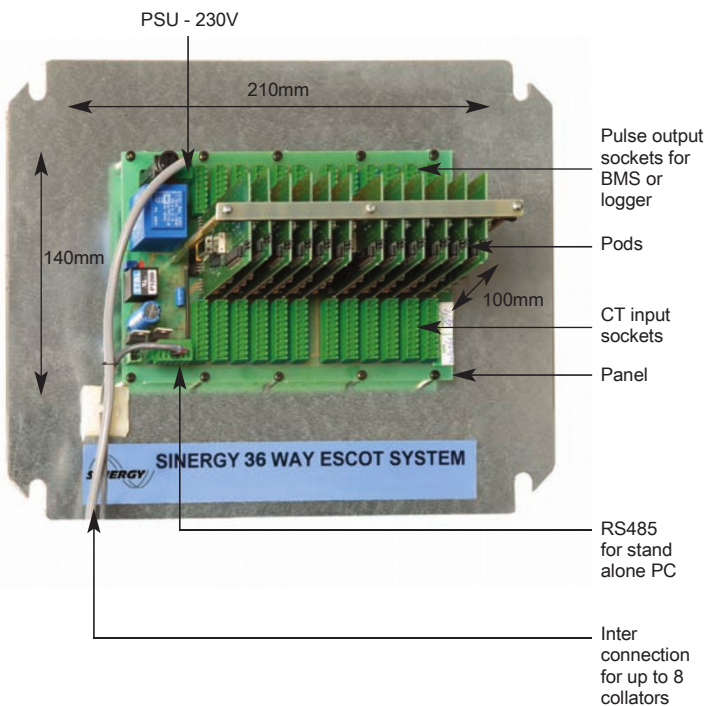
ESCOT collators derive their operational power from a single phase supply. The collator must share the same distribution transformer supply as the network over which the system ESCOT's are fitted.



ESCOT Collator Panels

Each panel accepts up to 36 ESCOT CTs of any type. Unbalanced 3Ø loads need 3 CTs whilst balanced and 1Ø loads only use 1 CT.

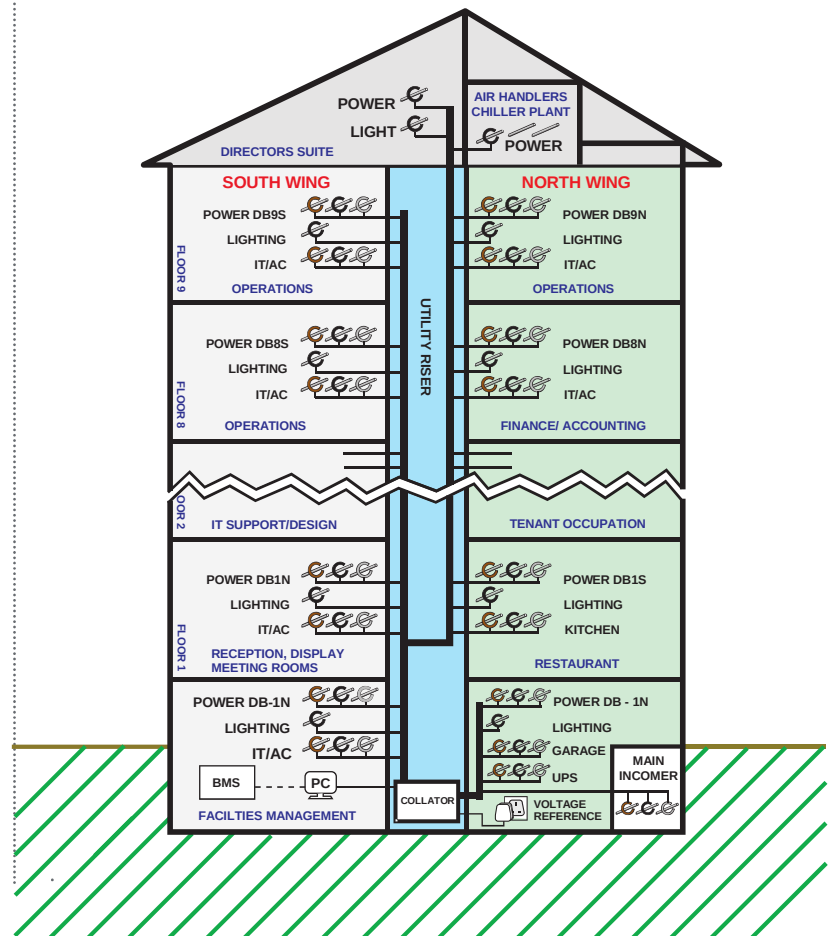
Collators can be fitted into suitable enclosures or supplied mounted on a back panel only.



ESCOT Set up and output choice

The installer has the choice to use kWh pulse or RS485/ RS232/ USB serial data outputs. For the serial data output, up to eight 36 way panels can be looped together to create a 288 way system.

Installation example in a typical commercial multi-storey building



ESCOT Basic and Manager Software

As with any investment the client needs a return and this is just as relevant for sub-metering systems.

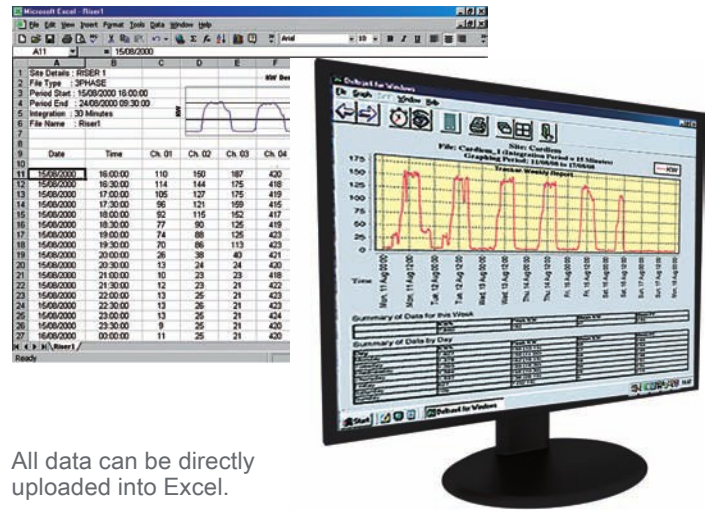
Through using the ESCOT system a large amount of data can be collated which can pinpoint areas where energy is being wasted and can subsequently be saved.

The ESCOT system will work in line with established metering software companies such as Optima and EFT to simplify and condense the time needed to fully understand the energy use pattern. Primarily it relieves the Energy Manager's communication responsibilities by automatically producing and emailing specific cost centre reports to appropriate personnel.

The ESCOT Basic software produces an on-line display and a daily CSV file of amps, power factor, kW, kWh and Volts for each of up to 288 1Ø or 96 3Ø metering points. This acts both as verification of correct operation during set up and overall view of distribution system performance for proactive maintenance purposes.

The ESCOT Basic software is recommended to run on a standalone adjacent or remote PC.

The ESCOT Manager software designed by EFT provides automatic data collection and simplicity in use. High speed operation allows relevant data to be extracted by a couple of mouse clicks for standard or advanced reports for individual or virtual meter points. The number of points determines the software cost, service costs may apply.



All data can be directly uploaded into Excel.

ESCOT CT Selection

Sinergy have reduced the task of installation to an absolute minimum. Select an ESCOT CT from the table below for attachment to the appropriate phase conductor in any LV distribution system.

Clip-On CTs match the diameter and current ratings of standard cables. Flexeclamps are invaluable for parallel feeders or where conductor spacing is very tight. Belden type signal cable (4 pair) is specified to connect a set of 3 CTs to the collator over distances up to 1km without any degradation in signal accuracy.

CT Style	CT Part Number	Nominal Size ID/Length	Nominal Ip Amps range	Accuracy PF-0.6 to unity temp 25°C 50/60Hz	Max Overall Cable Diameter \varnothing	Outlines
Hinged Clip On	SA16ES	16mm	200A	1.0%	16mm	
	SA32ES	32mm	500A	1.0%	32mm	
	SA48ES	48mm	1000A	1.0%	48mm	
Flexeclamp Clip Round	FL300ES	300mm length	800A	2.0%	85mm	
	FL400ES	400mm length	1500A	2.0%	110mm	
	FL500ES	500mm length	2000A	2.0%	140mm	
	FL600ES	600mm length	3000A	2.5%	170mm	
	FL700ES	700mm length	3000A	3.0%	200mm	
Bobbin Clip On	SFE16ES	16mm	100A	1.0%	16mm	
	SFE24ES	24mm	200A	1.0%	24mm	
	SFE36ES	36mm	600A	1.0%	36mm	

Other Amp ranges are available. A range of hinged clip-on CTs suitable for wiring long distances are available. Please contact the Technical Team for further details.

In pursuance of our policy of continued improvement Sinergy Meters reserve the right to change the design or specification of its products without notification



Sinergy Meters

Unit 1, Union Road Estate
 Union Road
 Macclesfield
 Cheshire
 SK11 7BN
 sales@sinergymeters.com
 www.sinergymeters.com

