



**CUSTOMER SUPPORT DEPARTMENT
APPLICATION NOTE**

AN0504

SUBJECT EC 100 series kWh consumption when using external CT's.

BRIEF

There is a requirement to measure loads in excess of the meters maximum current rating of 60 Amps. This can be done by using external CT's. The question of how to calculate the consumption when using external CT's, is one that repeatedly keeps being asked.

REMARKS

The actual kWh consumption per phase can be calculated by multiplying the CT ratio being used by the difference between the current and previous meter reading. This should be done for each phase separately. The total consumption will then be the sum of the calculated values.

Eg

For a 200/5 CT ratio the factor is 40.

Therefore the consumption per phase = 40 x kWh consumption.