

## AC Current Transducer

0-300 Amps ac to produce 4-20 mA dc



NOTE: Output current of each CT is limited to 30mA max. From this the required by using capacity of the D.C. supply can be calculated by multiplying the total number of CT's times 0.03A to find the maximum requirement output capacity of the supply.

It is possible to achieve an output close to full scale increase output resolution by using multiple turns through the window of the CT. The following equation would apply:

$$\frac{1}{\text{No. of Turns}} \times \left(\frac{1}{16} - 4\right)$$

EXAMPLE: A 37000 5 is used with two turns and is monitoring a 2A load.

If 
$$I_0 = 16.8 \text{ mA}$$
 then  $I_{\text{in}} = \frac{5}{2}$  X  $\left(\frac{16.8 - 4}{16}\right) = 2 \text{ Amps}$ 

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