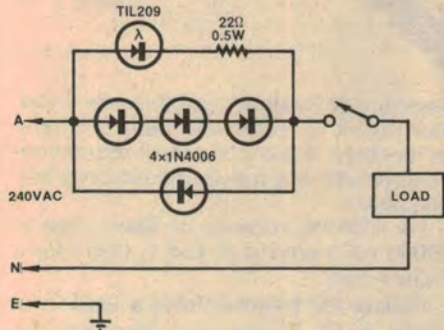


LED Indicator for Remote AC Loads



Four low-cost rectifier diodes, one resistor and a LED are all that is required to construct a simple indicator of current flow in AC loads. Although intended for mains operated equipment, the idea could easily be adapted to lower voltage applications, provided due allowance is made for the nominal 1.5 volts drop in-

duced by the insertion of this network.

The idea should function equally well in DC circuits, but remember to observe the normal polarity conventions. When used in DC circuits, the single diode, reverse connected across the series string of three diodes, may be omitted.

Using the specified diodes the circuit is suitable for loads up to 100 watts. For increased loading use larger diodes, and perhaps increase the value of the 22Ω series LED resistor.

From "Wireless World",
May, 1981.

Hum Measurements

This idea presents a simple method for the investigation of hum fields emanating from mains operated equipment.

A telephone pick-up coil is sensitive to 50Hz radiation and if fed into a amplifier

and loudspeaker or headphones will allow a qualitative evaluation of the strength of a hum field.

If it is desired to make quantitative measurements of relative field strengths, a suitable AC voltmeter could be coupled to the amplifier output. And for investigating very weak signals, a 50Hz (or frequency as desired) "acceptor" filter could be included in the amplifier chain to obtain much improved resolution.

With the aid of any one of these setups comparisons between transformers can be made, as well as the effectiveness of magnetic shields and the location of critical components in equipment.

P. Dimond,
North Lidcombe, NSW.

PSST! Got any neat circuit ideas? Why not send 'em to us? We pay between \$5 and \$20 per item, depending on how much work we have to do to publish it. ☺