

Electronic Wattmeter

I am having trouble with the Electronic Wattmeter, of September 1983. Are there any alterations or errata to the circuit?

With 1.5V on TP3 to TP2, VR3 has no effect on zeroing the meter but VR1 does zero the meter. There is a + or — drift from meter zero. With 1.5V on TP3 to TP1, VR1 has no effect on zeroing the meter but VR3 does zero the meter, with greater zero stability than from TP2.

With the connections as Fig.2, VR4 has no effect on the adjustment of the meter to 3kW. There is a -2.15V on the positive terminal of the meter and adjusting VR4 has no effect on the -2.15V. My positive supply is 12.16V, while the negative supply is 11.52V. (A.W., Elwood, Vic.)

• There has indeed been some errata on this project. The text should say "with 1.5V between TP3 and TP2, adjust VR1 for zero. With 1.5V between TP1 and TP3, adjust VR3 for zero." Note also that point 9 on the PCB overlay goes to the negative meter terminal.