





DANGER 300 VOLTS

CONTROLLED BY MAIN SWITCH N°1

11.53

240V MAIN SWITCH

240V MAIN SWITCH N°2

CONTROLLED BY MAIN SWITCH N°2

240V G.P.O.

240V G.P.O.

110 VOLTS

110 VOLTS

110 VOLTS

22 VOLTS ONLY



DECADE RESISTANCE



x100K



x10K



x1K



x100



x10



x1

ELECTRICAL ENGINEERING

S. T. C.



0V MAIN  
SWITCH  
No 1

240 V MAIN  
SWITCH  
No 2

240 V G. P. O.

\*\*\*\*\*  
APPLIANCE  
TESTER: \*\*\*\*\*  
TEST STATUS: \*\*\*\*\*  
TEST DATE: 22/10/20  
NEXT TEST: 22/04/20

ELECTRICAL ENGINEERING  
CERTIFICATE  
PLANT NO. 3010

3  
2  
1  
0 10  
x100mH  
35mA

4  
3  
2  
1  
0 10  
x10mH  
60mA

MODEL SVL 3  
4  
3  
2  
1  
0 10  
x1mH  
75mA





240V MAIN  
SWITCH  
No. 1

NEUTRAL  
EARTH



240V P.O.

**AMPROBE®**  
MODEL: PF1050  
VOLT/AMP/POWER FACTOR

ELECTRICAL ENGINEERING  
CERTIFICATE  
PLANT NO. **372720.**

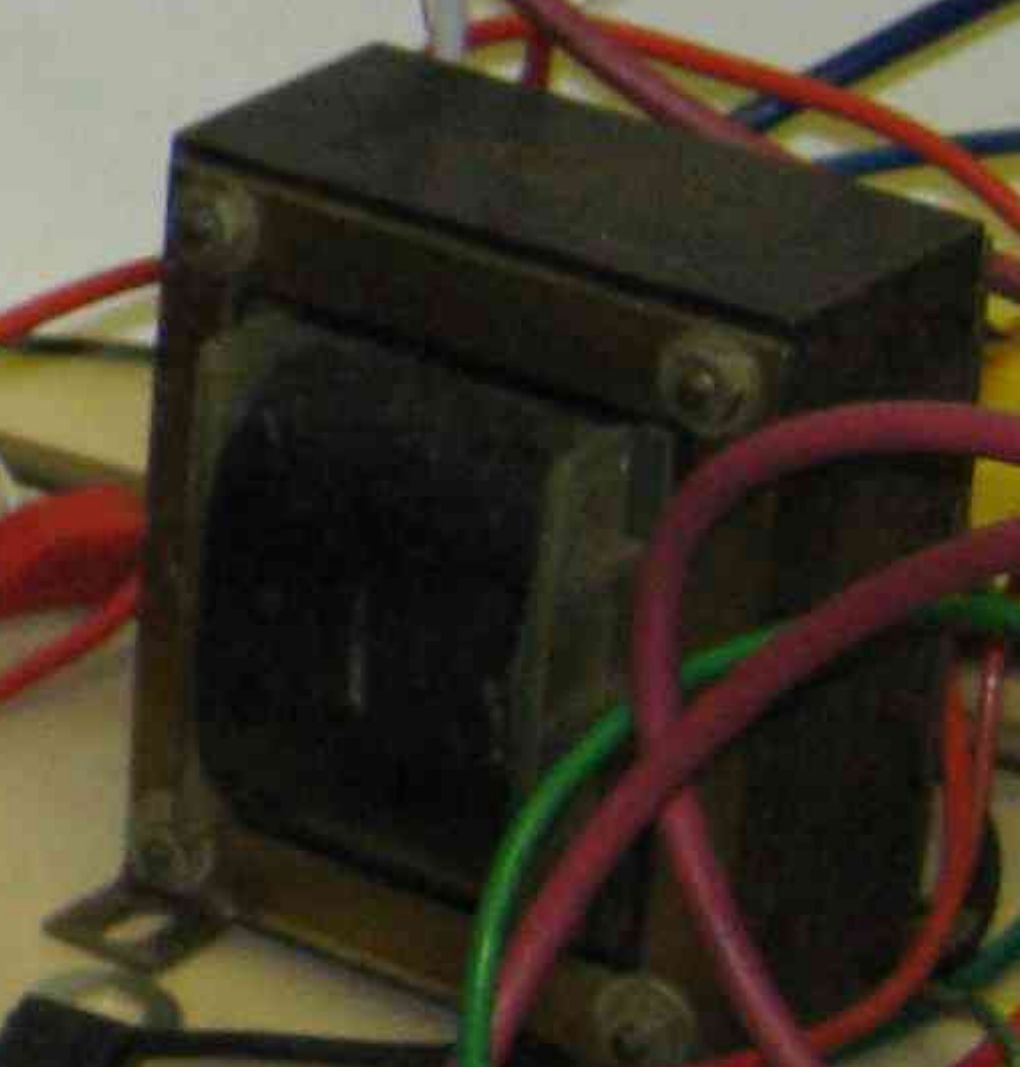
LEADING P.F.  
INDICATOR

VOLTS/AMPS RANGE  
0-999 ☒ 0-999

AMPS ☒ PF  
VOLTS

00.0

AMPROBE INSTRUMENT, LYNNBROOK, N.Y. 11563  
Part No. 30150 Rev. A  
This range setting indicates that the current being measured is in excess of 100 amperes. The range setting indicates that the current being measured is in excess of 100 amperes. The range setting indicates that the current being measured is in excess of 100 amperes.





Y/C 872720. ELEC ENGG SITE.

 **AMPROBE®**

**MODEL: PF1050**

**VOLT/AMP/POWER FACTOR**

ELECTRICAL ENGINEERING  
CERTIFICATE

PLANT NO. 872720.

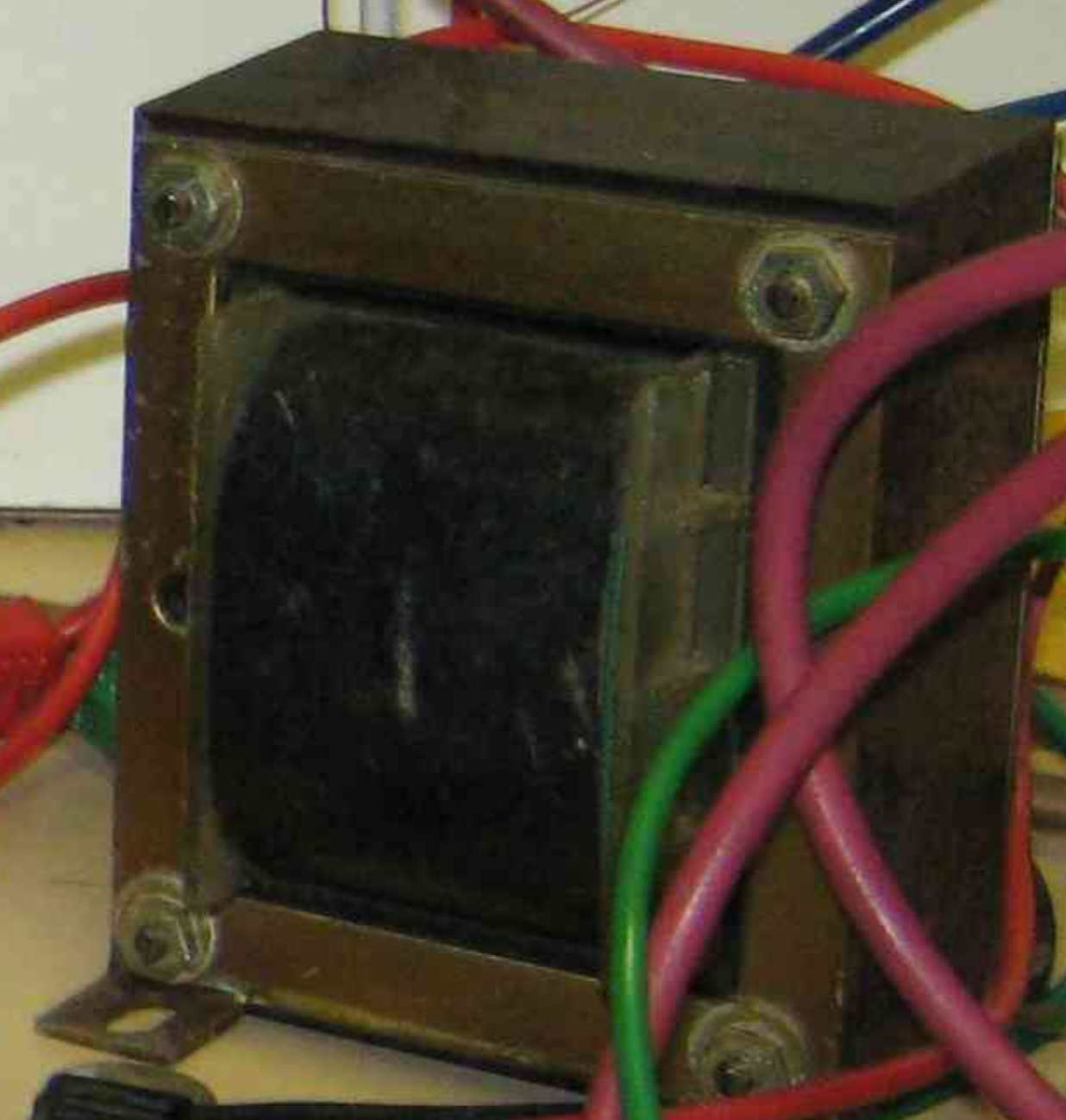
  
LEADING P.F.  
INDICATOR 

VOLTS/AMPS RANGE  
0-999  0-999

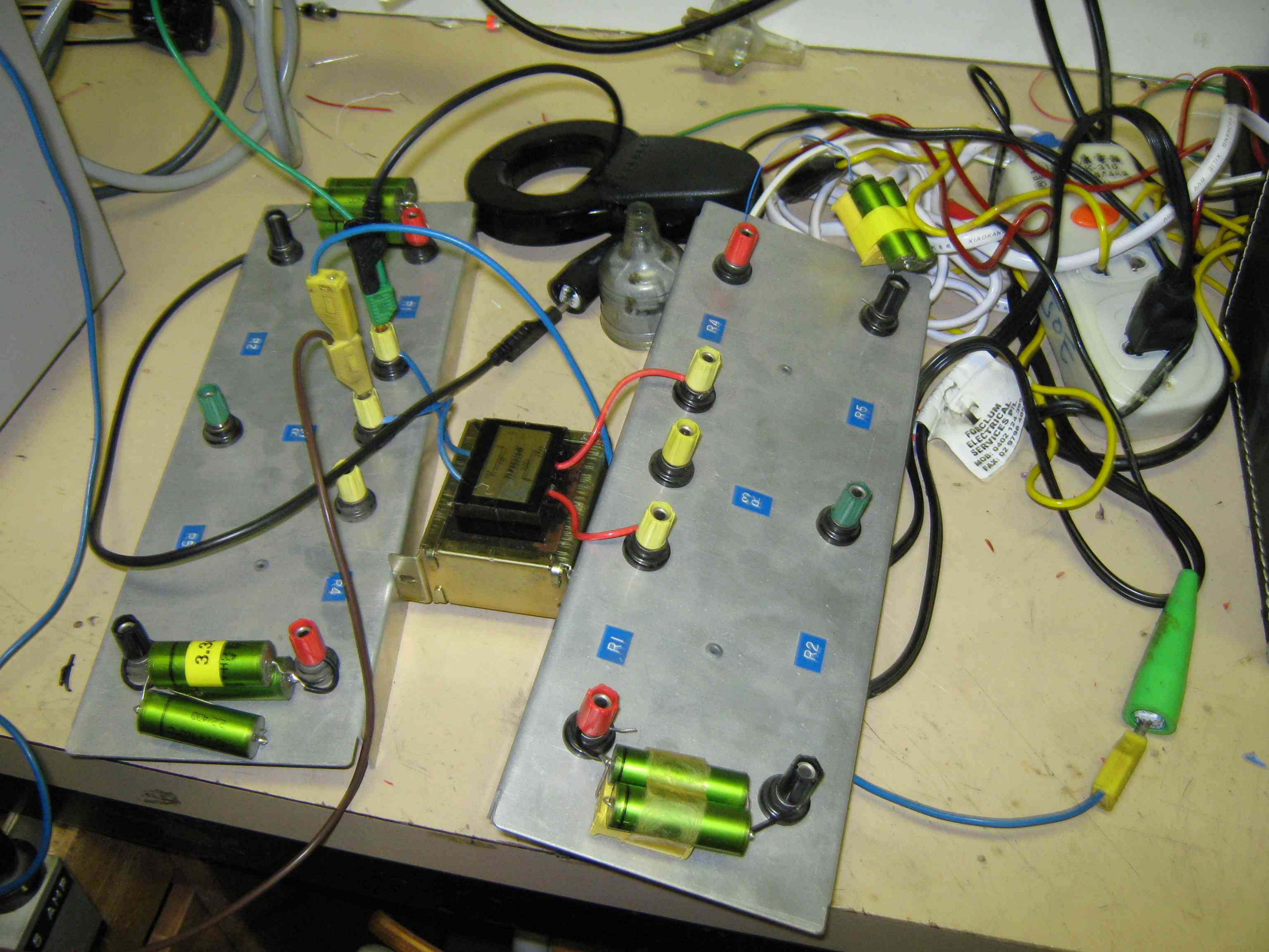
AMPS  PF  
VOLTS

00.0

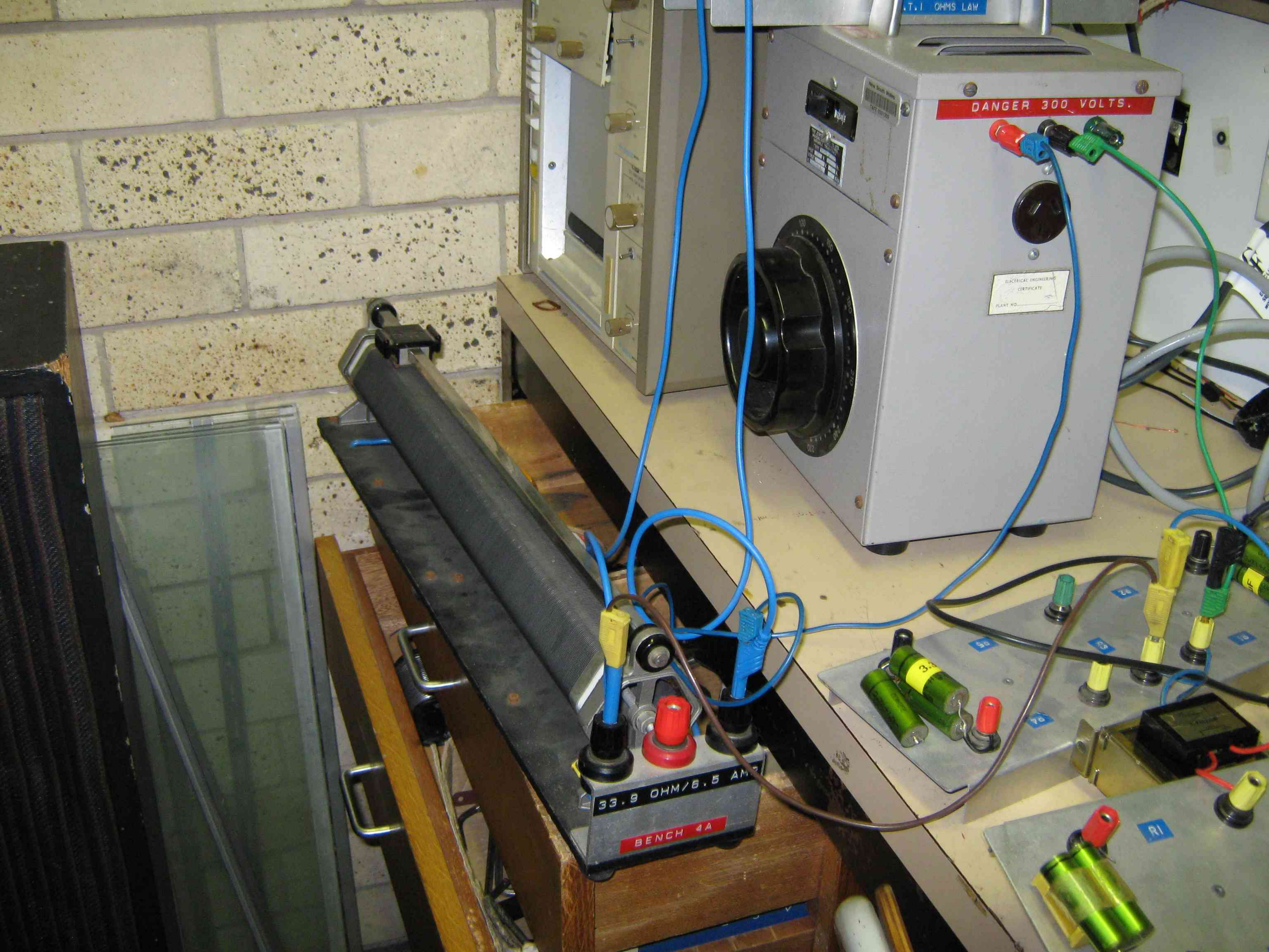
24 G.P.O.













AMPROBE®

MODEL: PF1050

VOLT/AMP/POWER FACTOR

ELECTRICAL ENGINEERING  
CERTIFICATE

PLANT NO. 372720.

LEADING P.F.  
INDICATOR

VOLTS/AMPS RANGE  
0-999 0-999

AMPS PF  
VOLTS

17.3

434996





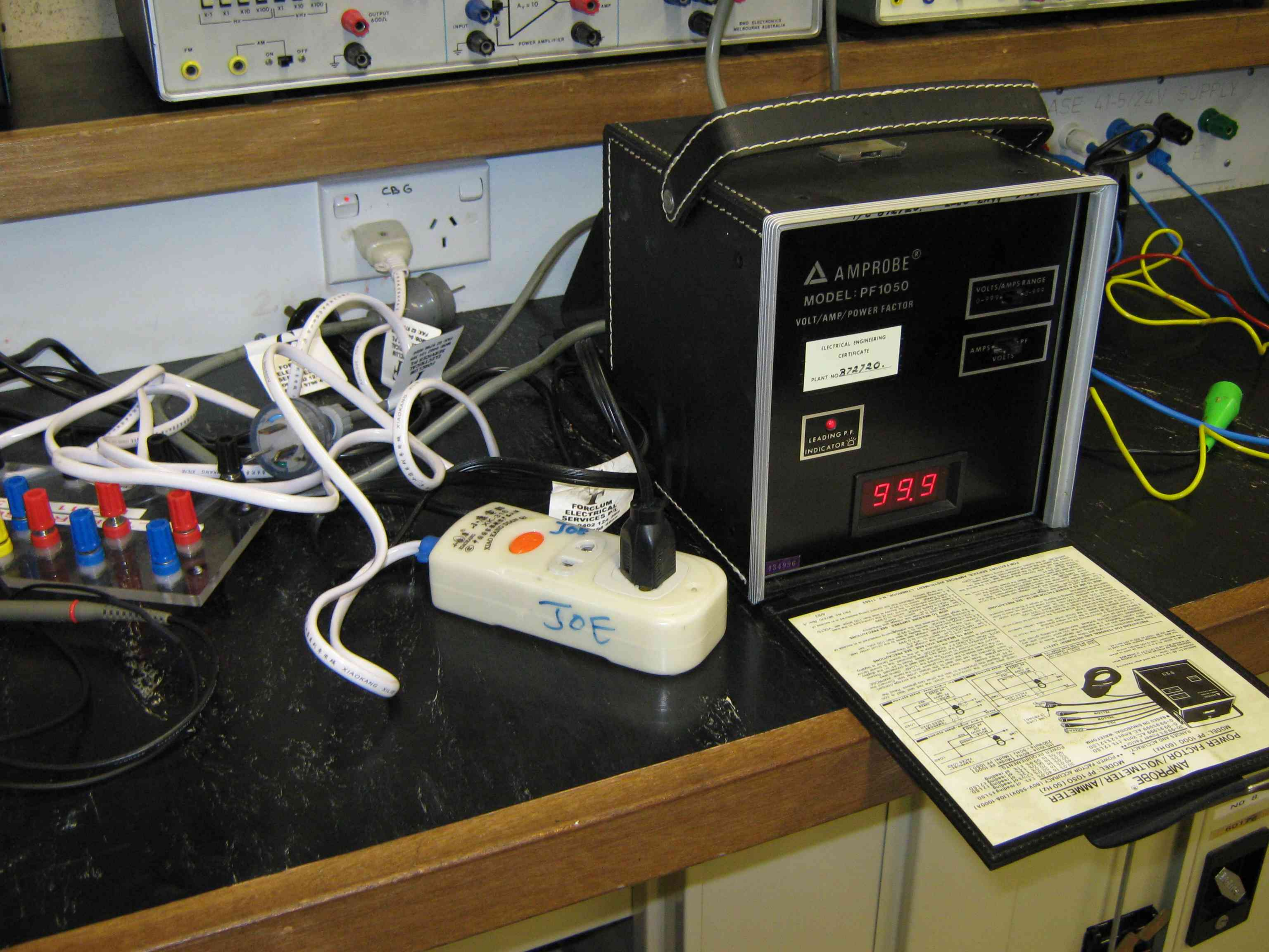












AMPROBE®  
MODEL: PF1050  
VOLT/AMP/POWER FACTOR

ELECTRICAL ENGINEERING  
CERTIFICATE  
PLANT NO. 372720.

LEADING P.F.  
INDICATOR

99.9

VOLTS/AMPS RANGE  
0-999V 0-99A

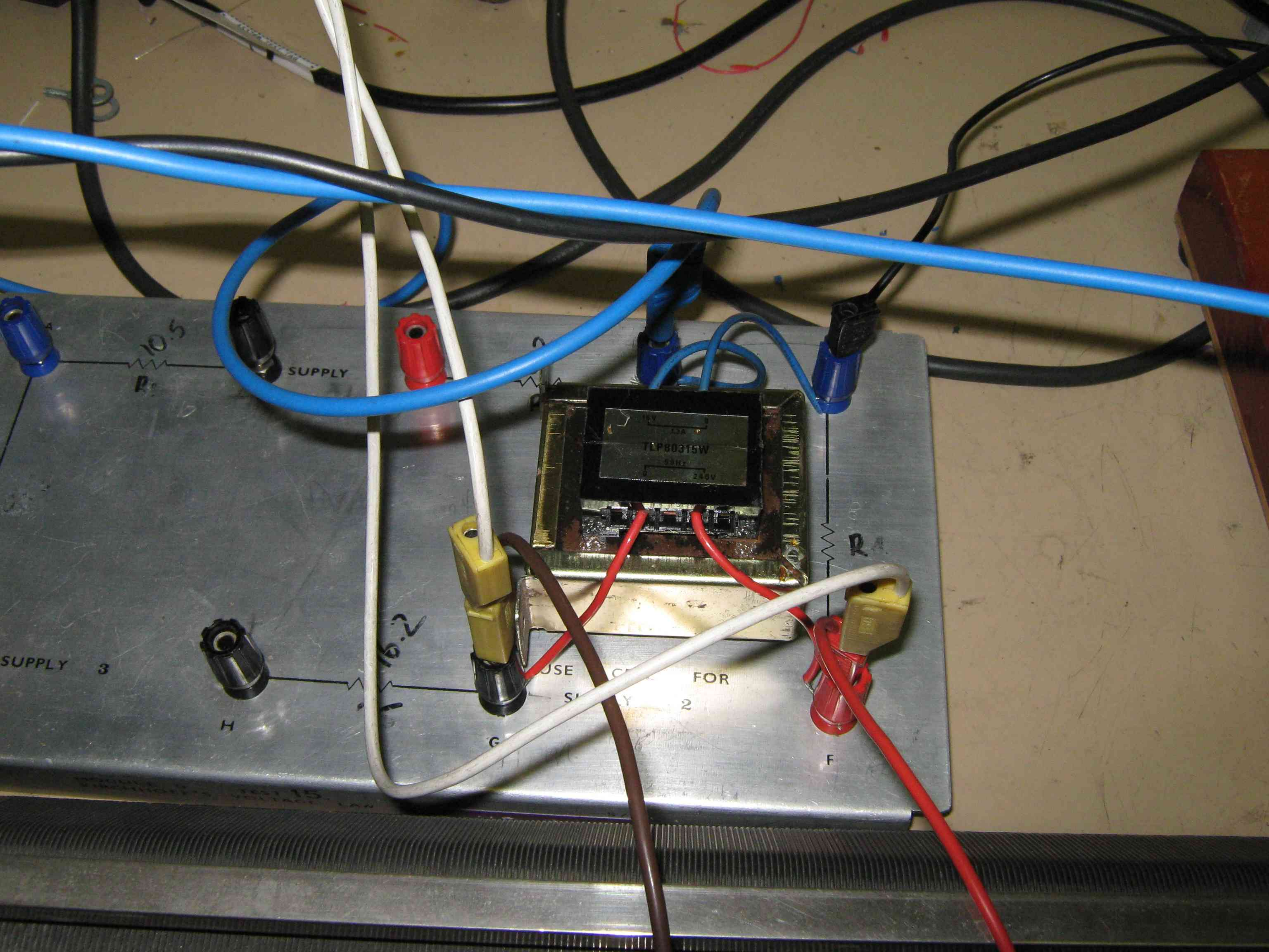
AMPS PF  
VOLTS

AMPROBE®  
POWER FACTOR / VOLTMETER / AMMETER  
MODEL: PF 1050 (50 HZ)  
POWER FACTOR ACCURACY: 1.80V - 500V (10A-1000A)  
VOLTAGE AND ACCURACY:  
30-300V A.C. 50/60 HZ 1%  
30-300V A.C. 50/60 HZ 1.5%  
30-300V A.C. 50/60 HZ 2%  
30-300V A.C. 50/60 HZ 2.5%  
30-300V A.C. 50/60 HZ 3%  
30-300V A.C. 50/60 HZ 3.5%  
30-300V A.C. 50/60 HZ 4%  
30-300V A.C. 50/60 HZ 4.5%  
30-300V A.C. 50/60 HZ 5%  
30-300V A.C. 50/60 HZ 5.5%  
30-300V A.C. 50/60 HZ 6%  
30-300V A.C. 50/60 HZ 6.5%  
30-300V A.C. 50/60 HZ 7%  
30-300V A.C. 50/60 HZ 7.5%  
30-300V A.C. 50/60 HZ 8%  
30-300V A.C. 50/60 HZ 8.5%  
30-300V A.C. 50/60 HZ 9%  
30-300V A.C. 50/60 HZ 9.5%  
30-300V A.C. 50/60 HZ 10%  
30-300V A.C. 50/60 HZ 10.5%  
30-300V A.C. 50/60 HZ 11%  
30-300V A.C. 50/60 HZ 11.5%  
30-300V A.C. 50/60 HZ 12%  
30-300V A.C. 50/60 HZ 12.5%  
30-300V A.C. 50/60 HZ 13%  
30-300V A.C. 50/60 HZ 13.5%  
30-300V A.C. 50/60 HZ 14%  
30-300V A.C. 50/60 HZ 14.5%  
30-300V A.C. 50/60 HZ 15%  
30-300V A.C. 50/60 HZ 15.5%  
30-300V A.C. 50/60 HZ 16%  
30-300V A.C. 50/60 HZ 16.5%  
30-300V A.C. 50/60 HZ 17%  
30-300V A.C. 50/60 HZ 17.5%  
30-300V A.C. 50/60 HZ 18%  
30-300V A.C. 50/60 HZ 18.5%  
30-300V A.C. 50/60 HZ 19%  
30-300V A.C. 50/60 HZ 19.5%  
30-300V A.C. 50/60 HZ 20%  
30-300V A.C. 50/60 HZ 20.5%  
30-300V A.C. 50/60 HZ 21%  
30-300V A.C. 50/60 HZ 21.5%  
30-300V A.C. 50/60 HZ 22%  
30-300V A.C. 50/60 HZ 22.5%  
30-300V A.C. 50/60 HZ 23%  
30-300V A.C. 50/60 HZ 23.5%  
30-300V A.C. 50/60 HZ 24%  
30-300V A.C. 50/60 HZ 24.5%  
30-300V A.C. 50/60 HZ 25%  
30-300V A.C. 50/60 HZ 25.5%  
30-300V A.C. 50/60 HZ 26%  
30-300V A.C. 50/60 HZ 26.5%  
30-300V A.C. 50/60 HZ 27%  
30-300V A.C. 50/60 HZ 27.5%  
30-300V A.C. 50/60 HZ 28%  
30-300V A.C. 50/60 HZ 28.5%  
30-300V A.C. 50/60 HZ 29%  
30-300V A.C. 50/60 HZ 29.5%  
30-300V A.C. 50/60 HZ 30%  
30-300V A.C. 50/60 HZ 30.5%  
30-300V A.C. 50/60 HZ 31%  
30-300V A.C. 50/60 HZ 31.5%  
30-300V A.C. 50/60 HZ 32%  
30-300V A.C. 50/60 HZ 32.5%  
30-300V A.C. 50/60 HZ 33%  
30-300V A.C. 50/60 HZ 33.5%  
30-300V A.C. 50/60 HZ 34%  
30-300V A.C. 50/60 HZ 34.5%  
30-300V A.C. 50/60 HZ 35%  
30-300V A.C. 50/60 HZ 35.5%  
30-300V A.C. 50/60 HZ 36%  
30-300V A.C. 50/60 HZ 36.5%  
30-300V A.C. 50/60 HZ 37%  
30-300V A.C. 50/60 HZ 37.5%  
30-300V A.C. 50/60 HZ 38%  
30-300V A.C. 50/60 HZ 38.5%  
30-300V A.C. 50/60 HZ 39%  
30-300V A.C. 50/60 HZ 39.5%  
30-300V A.C. 50/60 HZ 40%  
30-300V A.C. 50/60 HZ 40.5%  
30-300V A.C. 50/60 HZ 41%  
30-300V A.C. 50/60 HZ 41.5%  
30-300V A.C. 50/60 HZ 42%  
30-300V A.C. 50/60 HZ 42.5%  
30-300V A.C. 50/60 HZ 43%  
30-300V A.C. 50/60 HZ 43.5%  
30-300V A.C. 50/60 HZ 44%  
30-300V A.C. 50/60 HZ 44.5%  
30-300V A.C. 50/60 HZ 45%  
30-300V A.C. 50/60 HZ 45.5%  
30-300V A.C. 50/60 HZ 46%  
30-300V A.C. 50/60 HZ 46.5%  
30-300V A.C. 50/60 HZ 47%  
30-300V A.C. 50/60 HZ 47.5%  
30-300V A.C. 50/60 HZ 48%  
30-300V A.C. 50/60 HZ 48.5%  
30-300V A.C. 50/60 HZ 49%  
30-300V A.C. 50/60 HZ 49.5%  
30-300V A.C. 50/60 HZ 50%  
30-300V A.C. 50/60 HZ 50.5%  
30-300V A.C. 50/60 HZ 51%  
30-300V A.C. 50/60 HZ 51.5%  
30-300V A.C. 50/60 HZ 52%  
30-300V A.C. 50/60 HZ 52.5%  
30-300V A.C. 50/60 HZ 53%  
30-300V A.C. 50/60 HZ 53.5%  
30-300V A.C. 50/60 HZ 54%  
30-300V A.C. 50/60 HZ 54.5%  
30-300V A.C. 50/60 HZ 55%  
30-300V A.C. 50/60 HZ 55.5%  
30-300V A.C. 50/60 HZ 56%  
30-300V A.C. 50/60 HZ 56.5%  
30-300V A.C. 50/60 HZ 57%  
30-300V A.C. 50/60 HZ 57.5%  
30-300V A.C. 50/60 HZ 58%  
30-300V A.C. 50/60 HZ 58.5%  
30-300V A.C. 50/60 HZ 59%  
30-300V A.C. 50/60 HZ 59.5%  
30-300V A.C. 50/60 HZ 60%  
30-300V A.C. 50/60 HZ 60.5%  
30-300V A.C. 50/60 HZ 61%  
30-300V A.C. 50/60 HZ 61.5%  
30-300V A.C. 50/60 HZ 62%  
30-300V A.C. 50/60 HZ 62.5%  
30-300V A.C. 50/60 HZ 63%  
30-300V A.C. 50/60 HZ 63.5%  
30-300V A.C. 50/60 HZ 64%  
30-300V A.C. 50/60 HZ 64.5%  
30-300V A.C. 50/60 HZ 65%  
30-300V A.C. 50/60 HZ 65.5%  
30-300V A.C. 50/60 HZ 66%  
30-300V A.C. 50/60 HZ 66.5%  
30-300V A.C. 50/60 HZ 67%  
30-300V A.C. 50/60 HZ 67.5%  
30-300V A.C. 50/60 HZ 68%  
30-300V A.C. 50/60 HZ 68.5%  
30-300V A.C. 50/60 HZ 69%  
30-300V A.C. 50/60 HZ 69.5%  
30-300V A.C. 50/60 HZ 70%  
30-300V A.C. 50/60 HZ 70.5%  
30-300V A.C. 50/60 HZ 71%  
30-300V A.C. 50/60 HZ 71.5%  
30-300V A.C. 50/60 HZ 72%  
30-300V A.C. 50/60 HZ 72.5%  
30-300V A.C. 50/60 HZ 73%  
30-300V A.C. 50/60 HZ 73.5%  
30-300V A.C. 50/60 HZ 74%  
30-300V A.C. 50/60 HZ 74.5%  
30-300V A.C. 50/60 HZ 75%  
30-300V A.C. 50/60 HZ 75.5%  
30-300V A.C. 50/60 HZ 76%  
30-300V A.C. 50/60 HZ 76.5%  
30-300V A.C. 50/60 HZ 77%  
30-300V A.C. 50/60 HZ 77.5%  
30-300V A.C. 50/60 HZ 78%  
30-300V A.C. 50/60 HZ 78.5%  
30-300V A.C. 50/60 HZ 79%  
30-300V A.C. 50/60 HZ 79.5%  
30-300V A.C. 50/60 HZ 80%  
30-300V A.C. 50/60 HZ 80.5%  
30-300V A.C. 50/60 HZ 81%  
30-300V A.C. 50/60 HZ 81.5%  
30-300V A.C. 50/60 HZ 82%  
30-300V A.C. 50/60 HZ 82.5%  
30-300V A.C. 50/60 HZ 83%  
30-300V A.C. 50/60 HZ 83.5%  
30-300V A.C. 50/60 HZ 84%  
30-300V A.C. 50/60 HZ 84.5%  
30-300V A.C. 50/60 HZ 85%  
30-300V A.C. 50/60 HZ 85.5%  
30-300V A.C. 50/60 HZ 86%  
30-300V A.C. 50/60 HZ 86.5%  
30-300V A.C. 50/60 HZ 87%  
30-300V A.C. 50/60 HZ 87.5%  
30-300V A.C. 50/60 HZ 88%  
30-300V A.C. 50/60 HZ 88.5%  
30-300V A.C. 50/60 HZ 89%  
30-300V A.C. 50/60 HZ 89.5%  
30-300V A.C. 50/60 HZ 90%  
30-300V A.C. 50/60 HZ 90.5%  
30-300V A.C. 50/60 HZ 91%  
30-300V A.C. 50/60 HZ 91.5%  
30-300V A.C. 50/60 HZ 92%  
30-300V A.C. 50/60 HZ 92.5%  
30-300V A.C. 50/60 HZ 93%  
30-300V A.C. 50/60 HZ 93.5%  
30-300V A.C. 50/60 HZ 94%  
30-300V A.C. 50/60 HZ 94.5%  
30-300V A.C. 50/60 HZ 95%  
30-300V A.C. 50/60 HZ 95.5%  
30-300V A.C. 50/60 HZ 96%  
30-300V A.C. 50/60 HZ 96.5%  
30-300V A.C. 50/60 HZ 97%  
30-300V A.C. 50/60 HZ 97.5%  
30-300V A.C. 50/60 HZ 98%  
30-300V A.C. 50/60 HZ 98.5%  
30-300V A.C. 50/60 HZ 99%  
30-300V A.C. 50/60 HZ 99.5%  
30-300V A.C. 50/60 HZ 100%









10.5  
R<sub>1</sub>

SUPPLY

SUPPLY 3

H

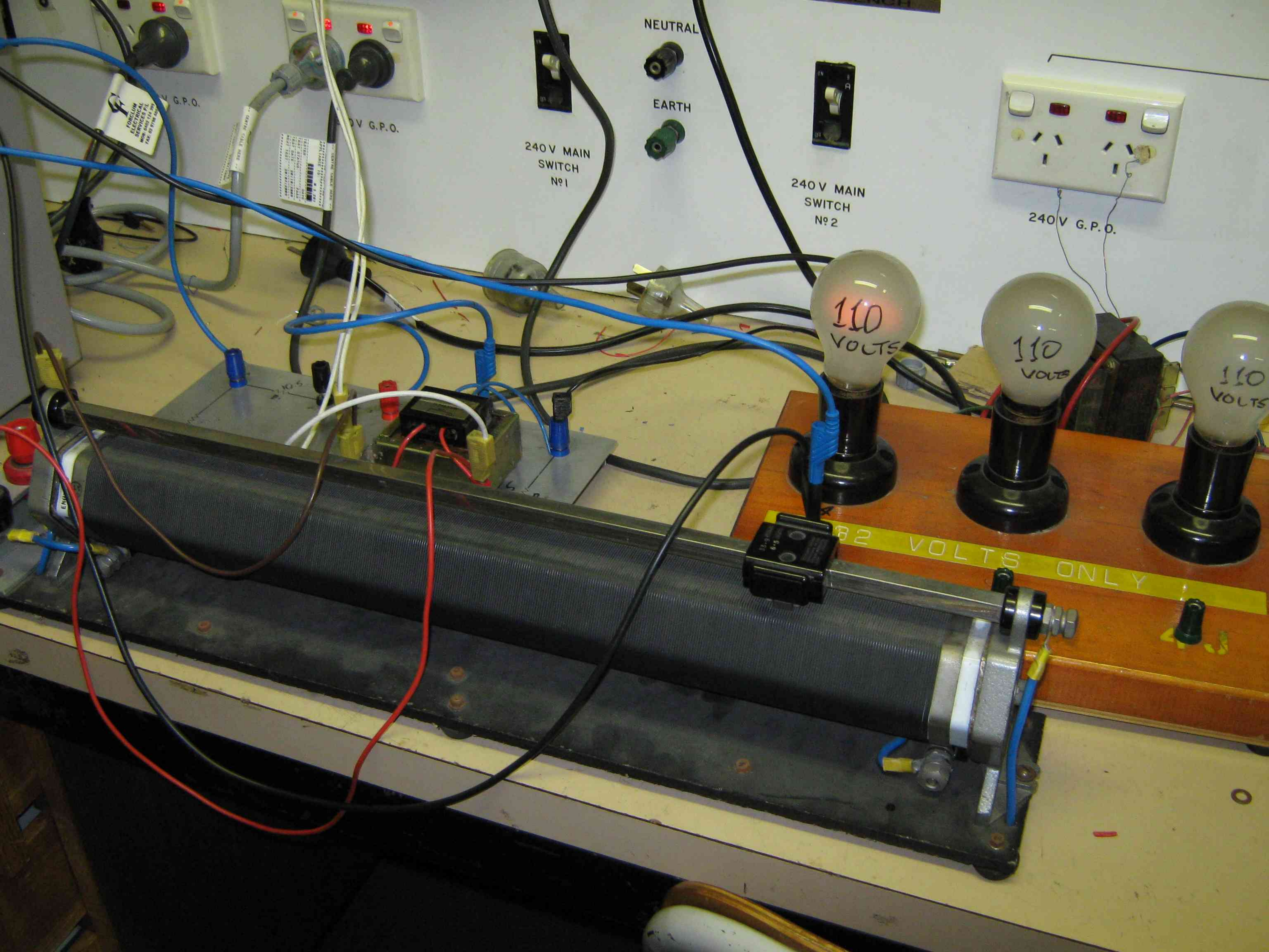
16.2  
2.9

USE FOR  
SIGNAL

R<sub>2</sub>

F





NEUTRAL

EARTH

240 V MAIN  
SWITCH  
Nº1

240 V MAIN  
SWITCH  
Nº2

240 V G.P.O.

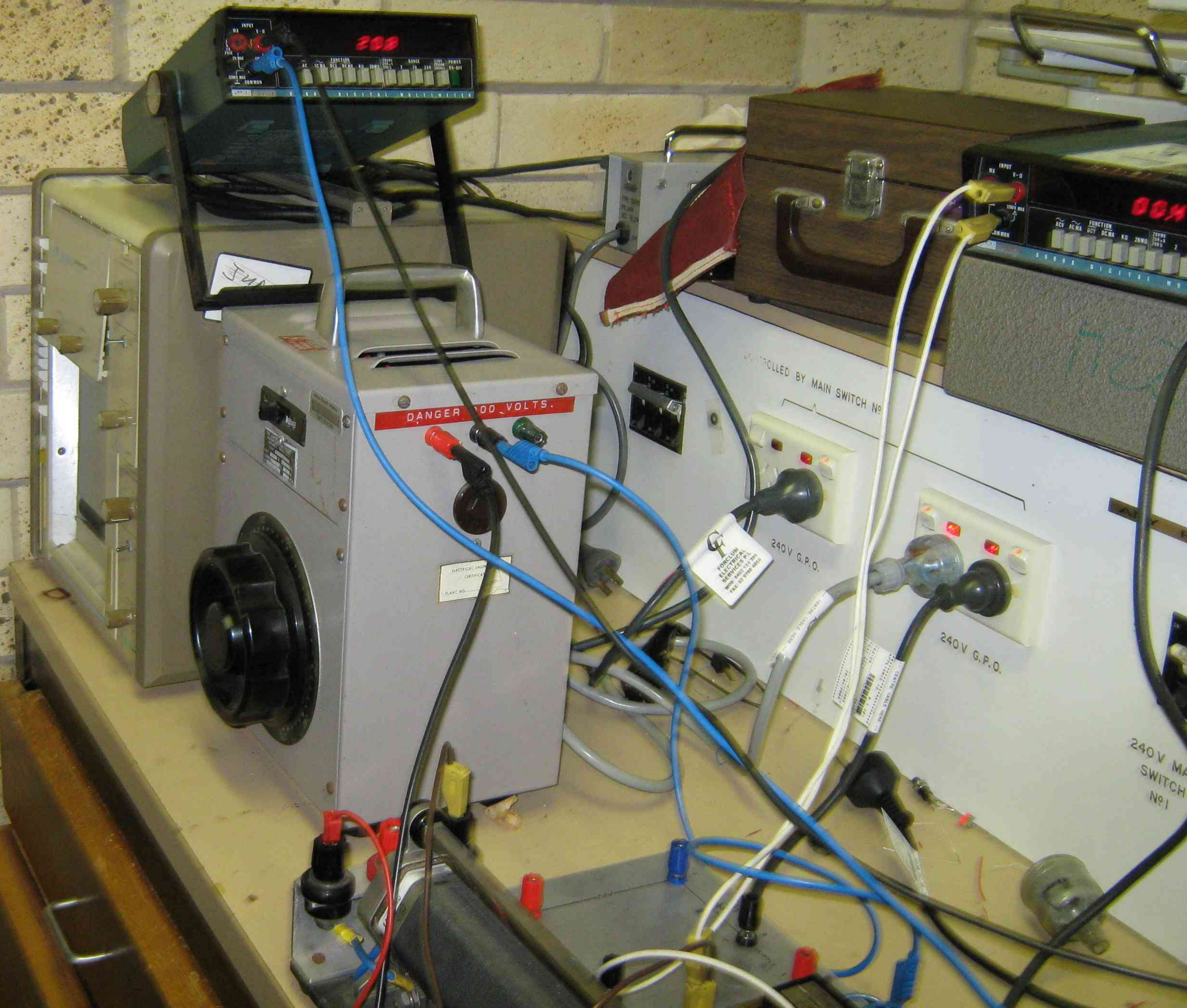
110  
VOLTS

110  
VOLTS

110  
VOLTS

110 VOLTS ONLY











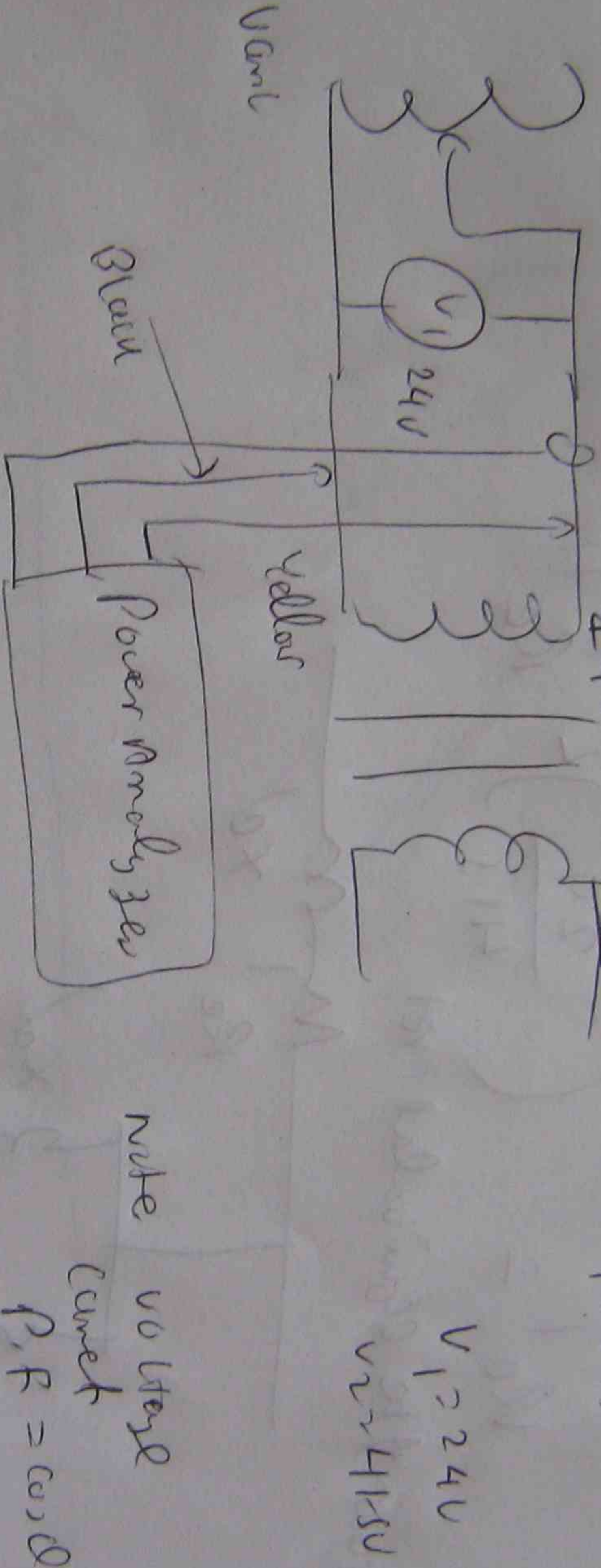
# Power Tr And for more

EP 28

Transformer open CIR cut / Short circuit

Test

Measure the given circuit & perform OCT



(1) Calculate

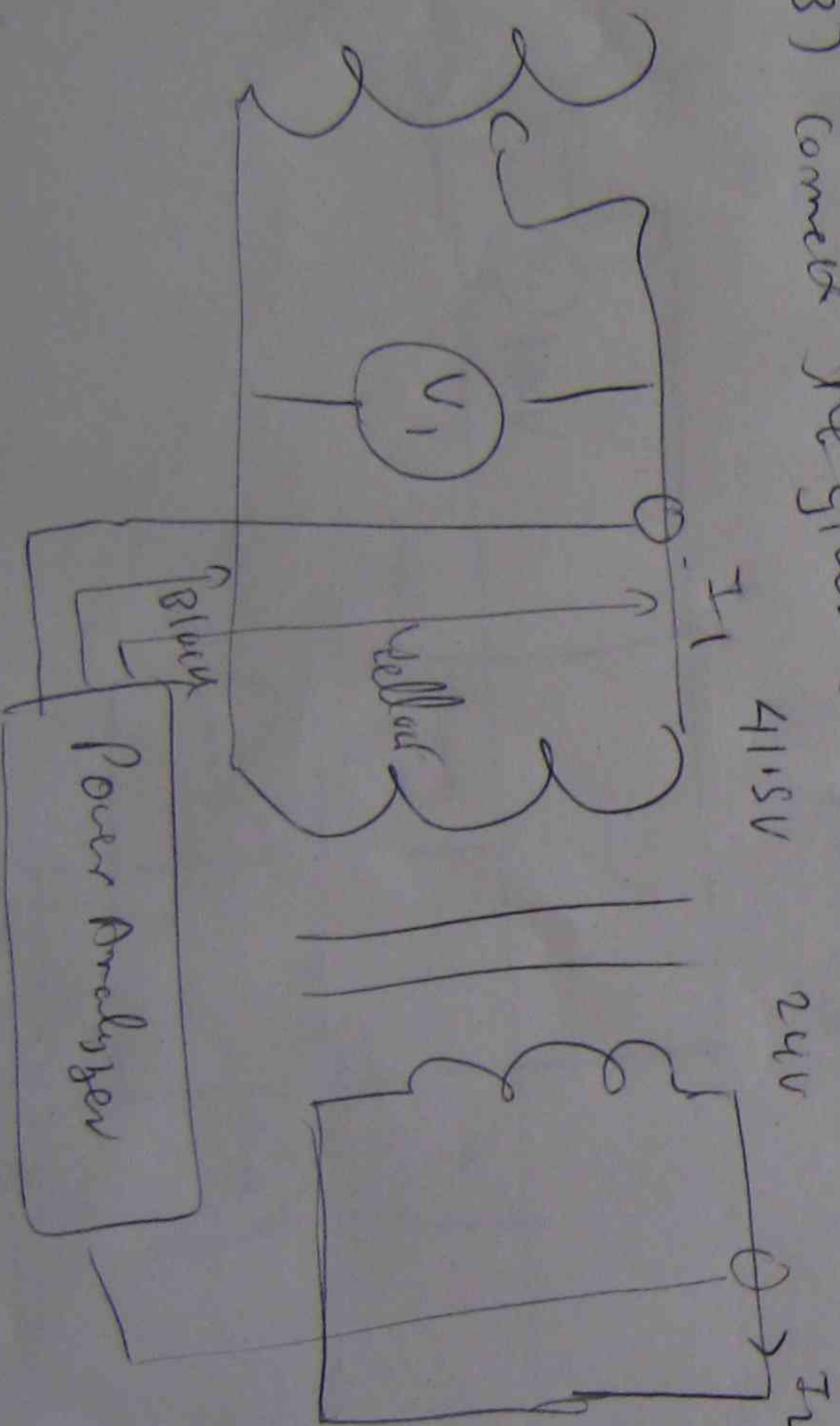
$$Power = V \times I \times P.F$$

$$\frac{V^2}{R_{ht1}} = Power$$

$$Z = R_{ht} =$$

$$X_m =$$

(3) correct the given circuit



(4)

$$I_2 = 2.5 \text{ Amp}$$

$$V, I, P.F$$

$$I_2^2 R_{ht} = V, I, P.F$$

$$Z_{ht} = \frac{V}{I}$$



$$X_e'' = \sqrt{Z_e''^2 - R_e''^2}$$

$$X_e' = \left( \frac{41.5}{24} \right) \left( \frac{24}{41.5} \right)^2 X_e''$$

$$R_e' = \left( \frac{24}{41.5} \right)^2 R_e''$$

(5) Draw the equivalent circuit

