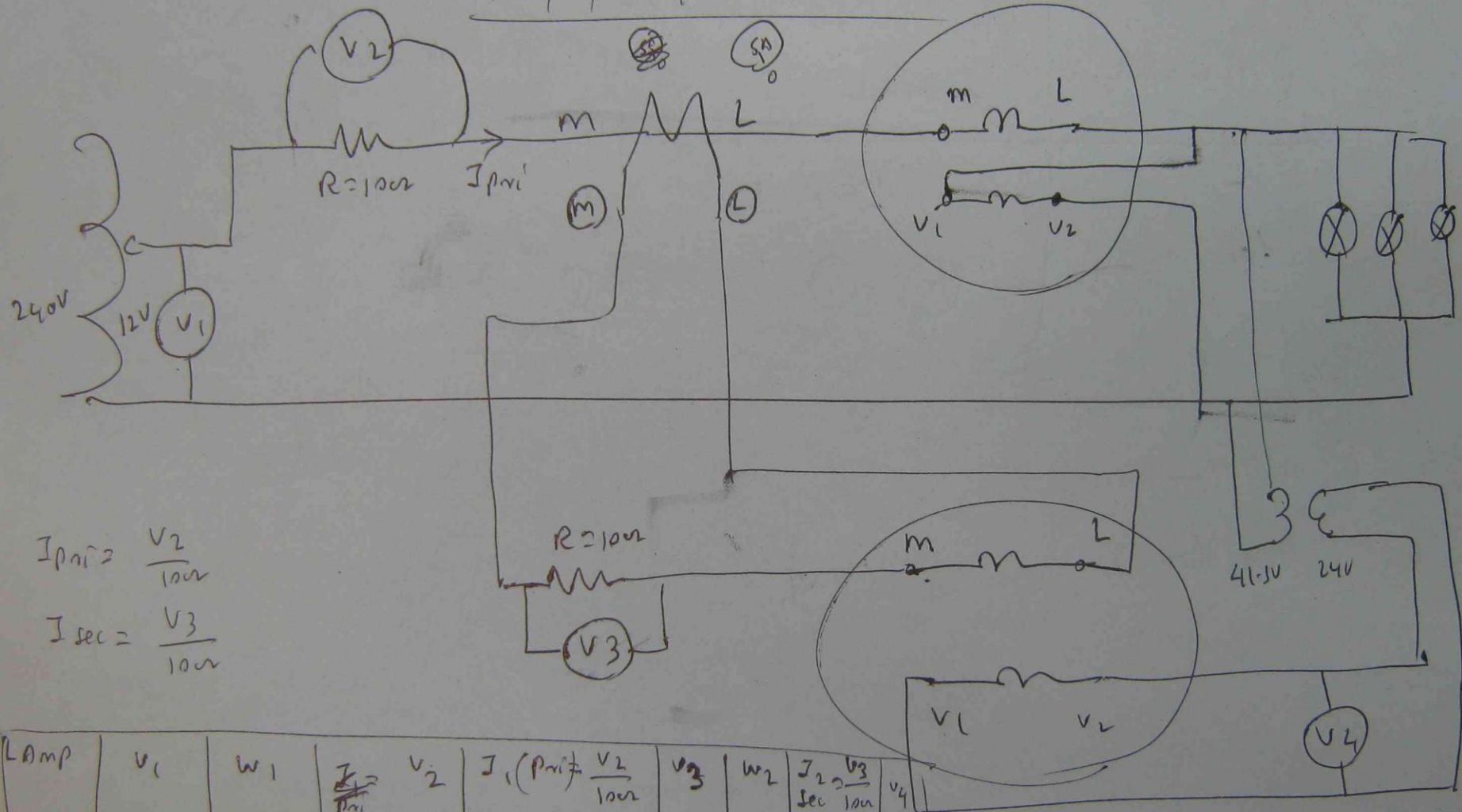


Power system measurement connection

C/T/PT/W

W1



$$I_{pri} = \frac{V_2}{100\Omega}$$

$$I_{sec} = \frac{V_3}{100\Omega}$$

Lamp	V ₁	W ₁	$\frac{I_{pri}}{I_{sec}}$	V ₂	I ₁ (Pri) = $\frac{V_2}{100\Omega}$	V ₃	W ₂	I ₂ = $\frac{V_3}{100\Omega}$	V ₄
1									
1+2									
1+2+3									

Σ V₂

Σ I₁

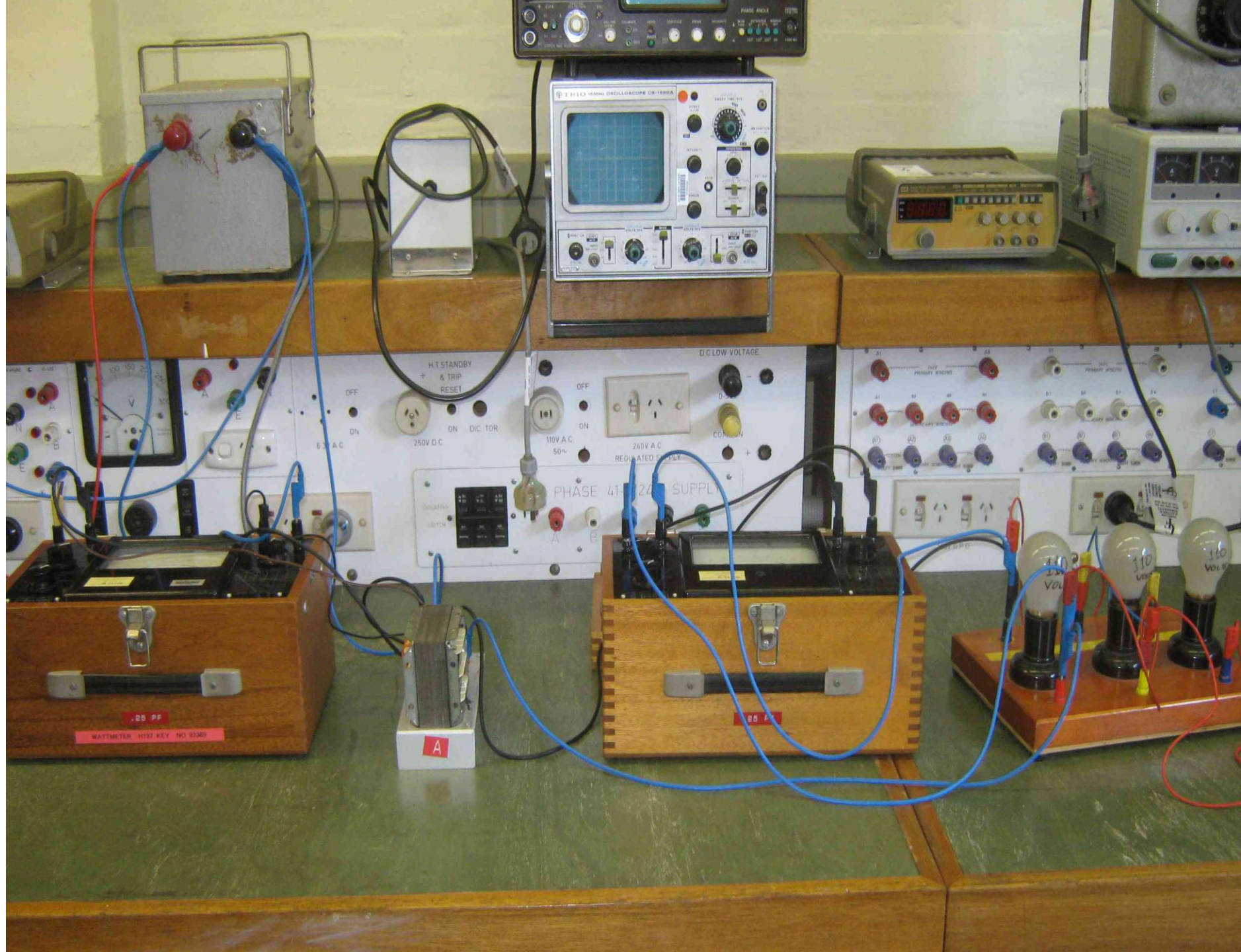
Σ I₂

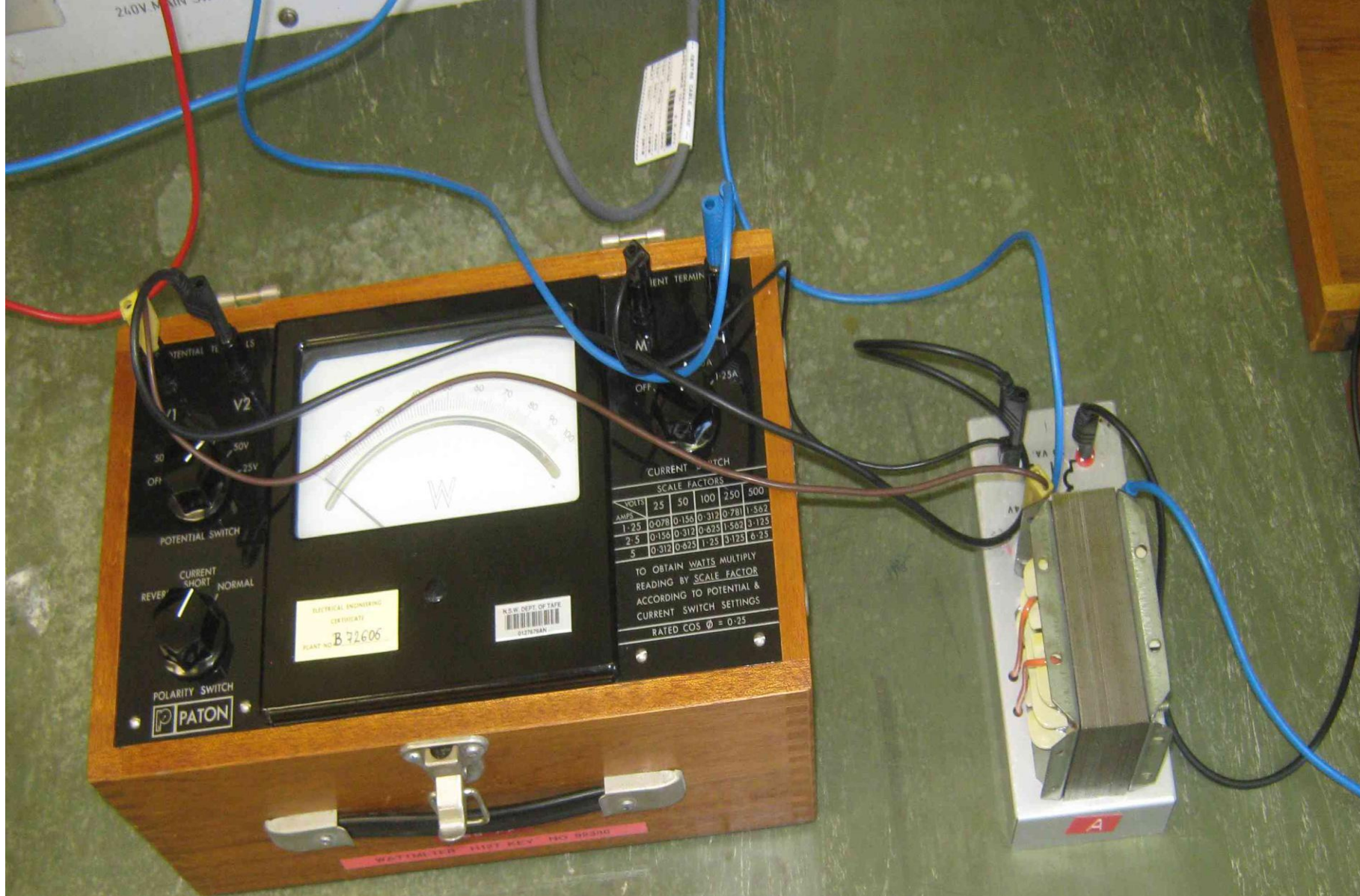
Σ V₄

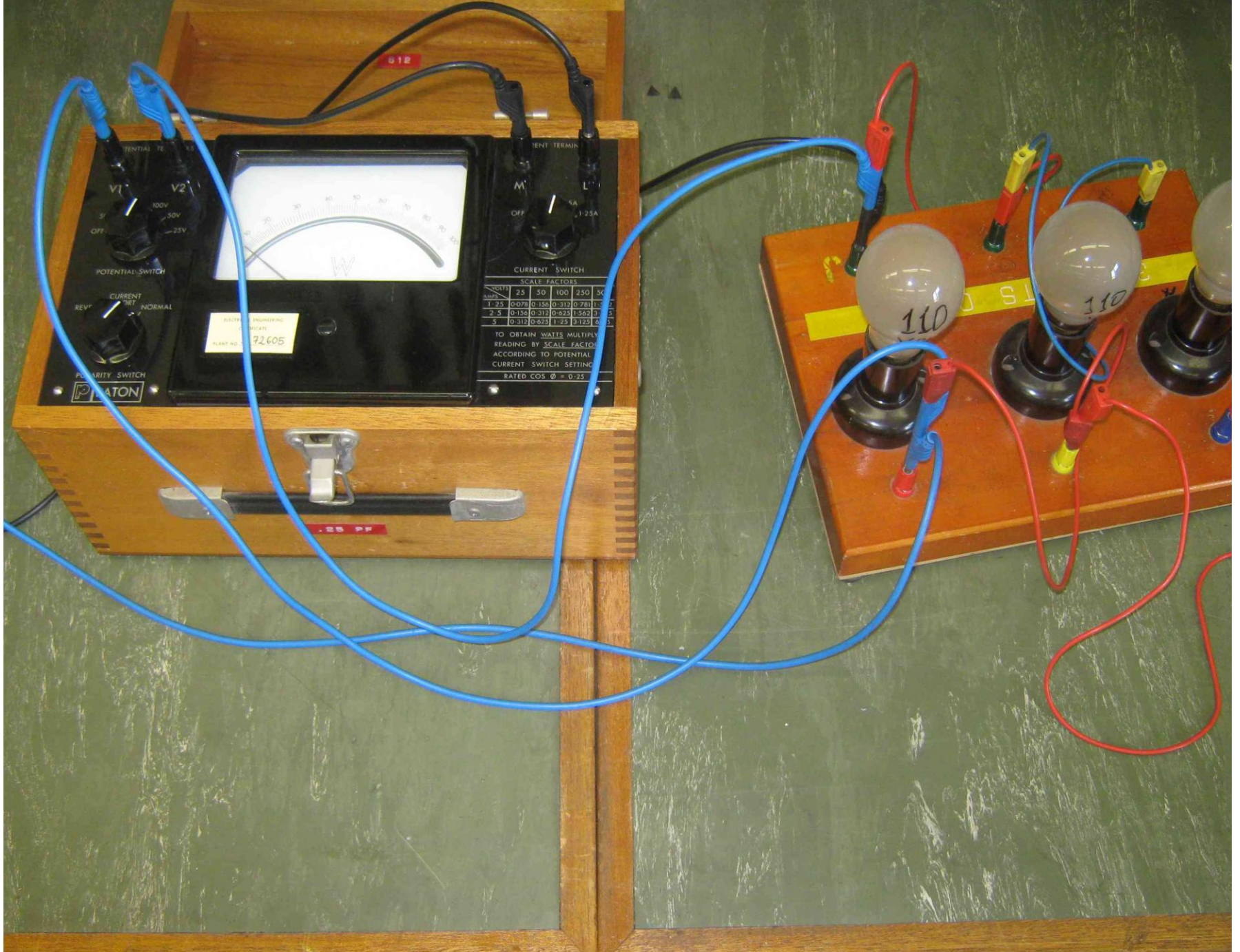
$$C.T. ratio = \frac{\Sigma I_1}{\Sigma I_2}$$

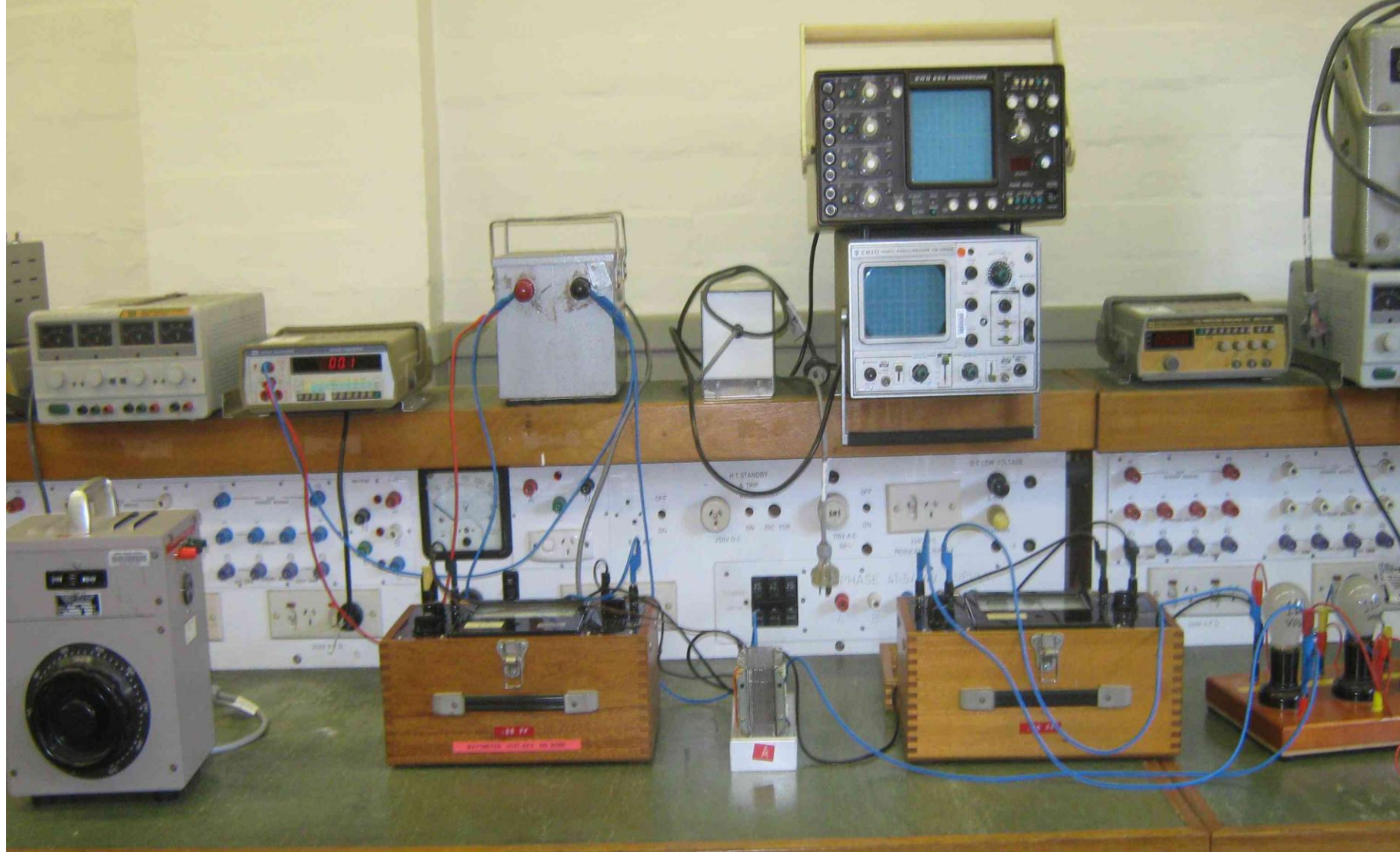
$$P.T. ratio = \frac{\Sigma V_2}{\Sigma V_4}$$

W2

















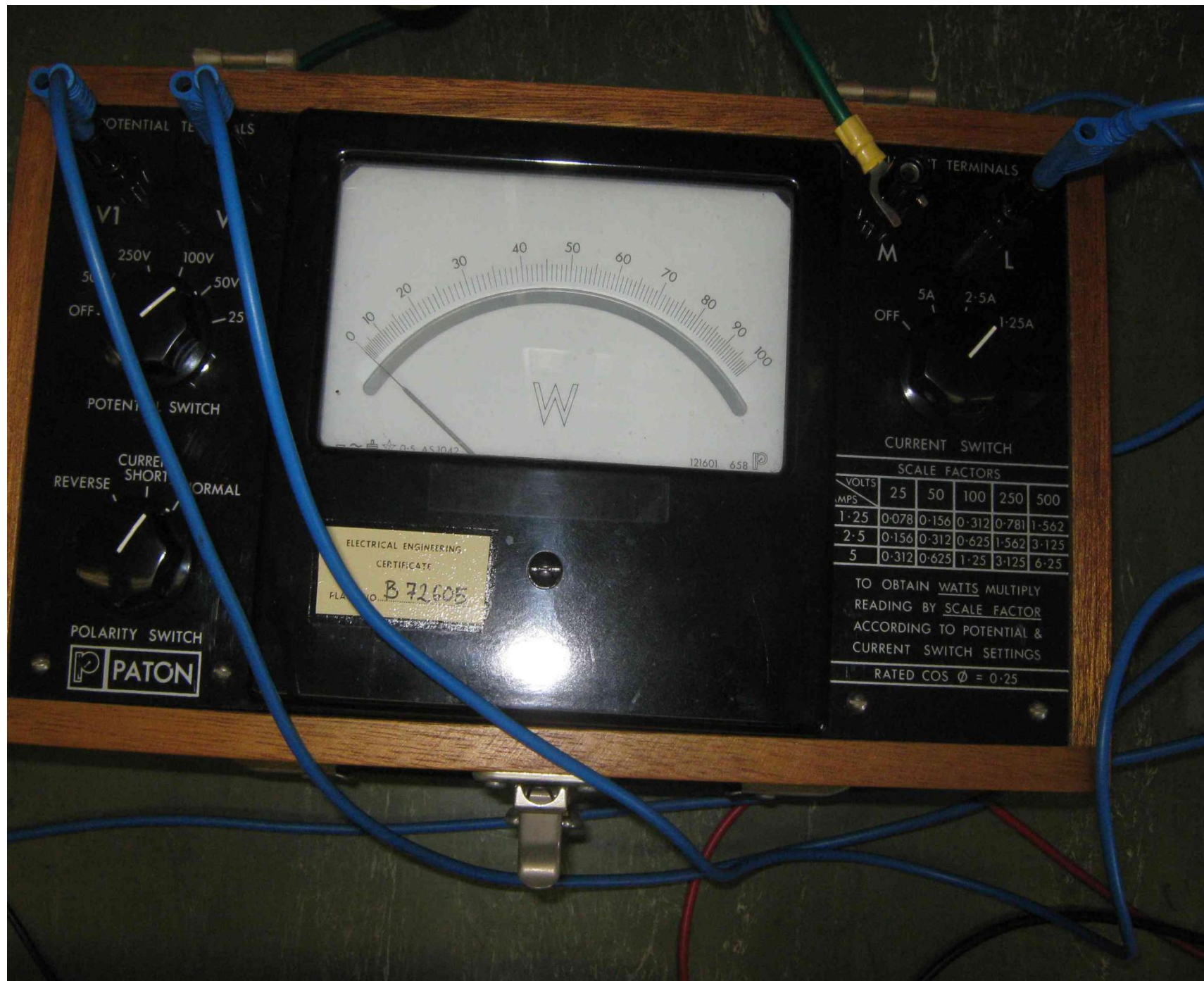
Cupboard No. 8

Top Shelf	• Circuit Breaker Panel: 3 x 10 Amperes 8 off Outlets 1-8
Bottom Shelf	• Load Bank (See index): 30 - 1 off Amperes



Type: Size 2		class: 0.2		output: 10 VA	
operating voltage: 230 V		1 = 50 c.p.s.		burden: 0.4 Ohm	
primary:	230 V	pass primary through core opening:			
		2 turns 200 Amperes 	1 turn 100 Amperes 	1 turn 50 Amperes 	
secondary:	5 Amps 	5 Amps 	5 Amps 	5 Amps  * connected to L 	
		voltage terminal "v" is connected to "M"			switch adjustment: optional

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CURRENT SWITCH

SCALE FACTORS					
VOLTS MPS	25	50	100	250	500
1.25	0.078	0.156	0.312	0.781	1.562
2.5	0.156	0.312	0.625	1.562	3.125
5	0.312	0.625	1.25	3.125	6.25

TO OBTAIN WATTS MULTIPLY
READING BY SCALE FACTOR
ACCORDING TO POTENTIAL &
CURRENT SWITCH SETTINGS

RATED $\cos \phi = 0.25$



CURRENT TERMINALS

M

L

V1

V2

250V

100V

50V

25V

500V

OFF

POTENTIAL SWITCH

CURRENT

SHORT

NORMAL

POLARITY SWITCH



ELECTRICAL ENGINEER

CERTIFICATE

PLANT NO. 42606

N.S.W. DEPT. OF TAFE



0127679AN

OFF

5A

2.5A

1.25A

CURRENT SWITCH

SCALE FACTORS

VOLTS	25	50	100	250	500
AMPS					
1.25	0.078	0.156	0.312	0.781	1.562
2.5	0.156	0.312	0.625	1.562	3.125
5	0.312	0.625	1.25	3.125	6.25

TO OBTAIN WATTS MULTIPLY
READING BY SCALE FACTOR
ACCORDING TO POTENTIAL &
CURRENT SWITCH SETTINGS

RATED COS ϕ = 0.25

