Voltage Source

1

v_{s1}

$<R_{Th}$

$R_{Th} = <R_{Th}$

Voltage Source

2

v_{s2}

$<R_{Th}$

$R_{Th} = <R_{Th}$

Resistor: series

3

R

$<R_{Th}$

$R_{Th} = <R_{Th} + R$

Resistor: variable

(Thermistor)

4

R_T

$<R_{Th}$

$R_{Th} = <R_{Th} + R_T$

Resistor: variable

(CdS Photocell)

5

R_{CdS}

$<R_{Th}$

$R_{Th} = <R_{Th} + R_{CdS}$

V-Divider

6

$G = \dfrac{R_2}{<R_{Th} + R_1 + R_2}$

$<R_{Th}$

R_1

R_2

$R_{Th} = (<R_{Th} + R_1) \| R_2$

Potentiometer

7

$G_1 = \dfrac{<R_{Th2} + R_b}{<R_{ThTot} + R_{pot}}$

$<R_{Th1}$

$G_2 = \dfrac{<R_{Th1} + R_a}{<R_{ThTot} + R_{pot}}$

$R_{pot} = R_a + R_b$

$<R_{ThTot} = <R_{Th1} + <R_{Th2}$

R_a

R_b

$<R_{Th2}$

$R_{Th} = (<R_{Th1} + R_a) \| (<R_{Th2} + R_b)$

Resistor: parallel

8

$G = \dfrac{R_p}{<R_{Th} + R_p}$

$<R_{Th}$

R_p

$R_{Th} = R_p \| <R_{Th}$