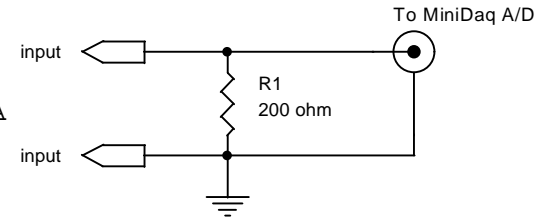|	A	B	C	D	E	

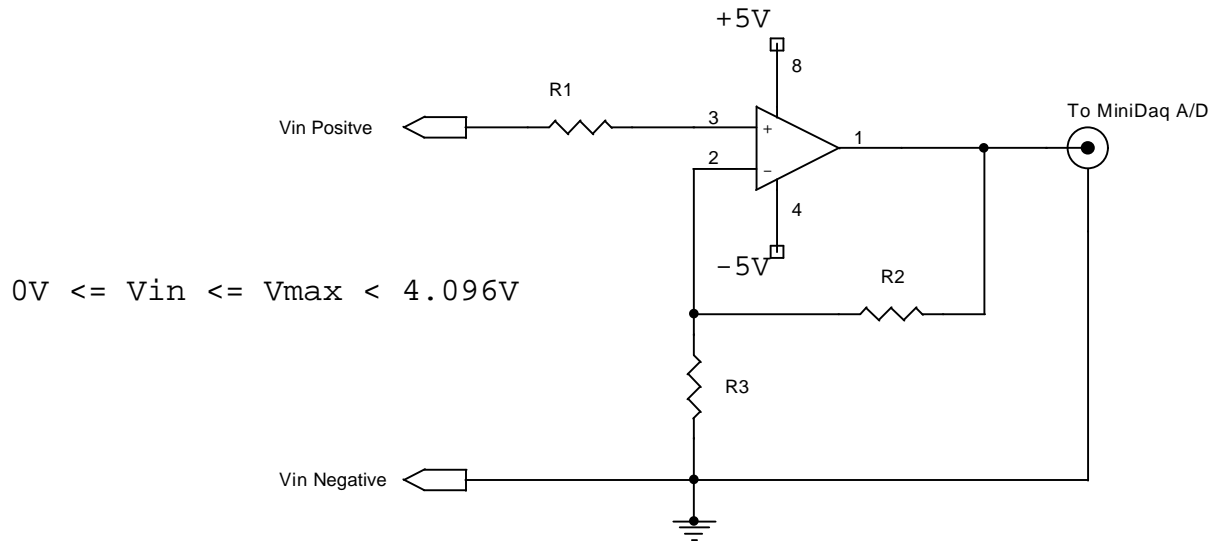Vin Positve

R1

To MiniDaq A/D

0V <= Vin <= Vmax

R2

Vin Negative

$$4.096 = Vmax * R2/(R1+R2)$$

By using a resister voltage divider, larger
input signals can be scaled down to fit
MiniDaqs input voltage range.

To MiniDaq A/D

input

R1
200 ohm

$$I = 4 - 20mA$$

input

4 - 20ma current loop can be
read through a resistive shunt

+5V

8

R1

3

Vin Positve

+

1

To MiniDaq A/D

2

−

4

−5V

R2

$$0V <= Vin <= Vmax < 4.096V$$

R3

Vin Negative

$$4.096 = Vmax * (R2/R1 +1) \quad ; \quad R3=R1$$

By using a Op-Amp, small input signals can
be amplified.

MiniDaq A/D
Input
Circuits

Note: MiniDaq set to Unipolar input