

SENSOR		CIRCUIT					
Gas	Sensitivity (nA/ppm)	Range (ppm)	Bias			TIA Gain	
			BIAS +/-**	Setpoint (mV)	R2 ( $\Omega$ )	Setpoint (kV/A)	R6 ( $\Omega$ )*
CO	$4.75 \pm 2.75$	1000	+	3	2 k	100	100 k
H2S	$200 \pm 100$	50	+	3	2 k	49.9	49.9 k
NO2	$-30 \pm 5$	20	-	200	143 k	499	499 k
SO2	$30 \pm 5$	20	+	200	143 k	100	100 k
O3	$-20 \pm 10$	20	-	25	16.2 k	499	499 k
ETOH	$14 \pm 5$	1000	+	100	69.8 k	249	249 k
IAQ			+	150	105 k	100	100 k
RESP			-	200	143 k	499	499 k

\* If using potentiometer (R7), the gain of the transimpedance amplifier is (R6 + R7) V/A

\*\* Populate the BIAS area with 0603 0.0 $\Omega$  jumpers according to the images below:

