

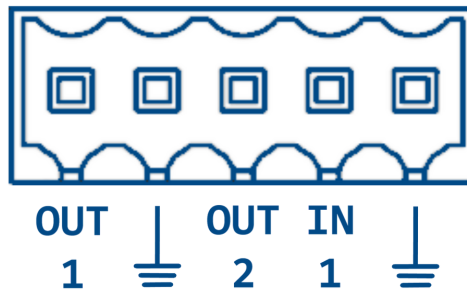
# SNAP

## ANALOG IN/ OUT GUIDE

	OUT 1	OUT 2	IN 1
<b>775i SENSOR</b>	PRESSURE= (VOLTS - 1) * 100 <b>775i SENSOR</b>	PRESSURE= 10^(VOLTS) <b>775i SENSOR</b>	$V = (P + 42) / 86$
<b>DCP SENSOR</b>	PRESSURE= 10^(VOLTS-1) <b>DCP SENSOR</b>	PRESSURE= 10^(V-6.5) <b>DCP SENSOR</b>	$V = (P + 55.5) / 111$
<b>10 TORR SENSOR</b>	PRESSURE= VOLTS <b>10 TORR SENSOR</b>	PRESSURE= (VOLTS - 1) * 100 <b>775i SENSOR**</b>	$V = (P + 0.503) / 1.11$

\*\*NOTE: The internal 775i sensor output is sent to OUT2 when using a 10 Torr CM to enable reading above 10 Torr.

### Connection Details



## SNAP | Analog In

### Input Voltage vs Control Setpoint

<b>NOTE</b> ***	< 0.5	VACUUM PATH FULLY OPEN   VENT CLOSED
	> 9.5	VENT PATH FULLY OPEN   VACUUM CLOSED

## Torr

Analog In (Volts)	775i Setpoint	DCP Setpoint	10Torr Setpoint
Desired Setpoint Examples (Torr) "P"	Voltage (775i Mode) =(P+42)/86	Voltage (DCP Mode) =(P+55.5)/111	Voltage (10 Torr) =(P+0.503)/1.11
0.5	1	0.010	0.052
0.51	1.86	0.016	0.0631
0.52	2.72	0.023	0.0742
0.53	3.58	0.029	0.0853
0.54	4.44	0.036	0.0964
0.55	5.3	0.043	0.1075
0.56	6.16	0.049	0.1186
0.6	9.6	0.076	0.163
0.75	22.5	0.175	0.3295
0.85	31.1	0.242	0.4405
1	44	0.341	0.607
1.5	87	0.673	1.162
2	130	1.004	1.717

2.5	173	1.336	2.272
3	216	1.667	2.827
3.5	259	1.999	3.382
3.51	259.86	2.660	3.3931
3.52	260.72	4.320	3.4042
3.55	263.3	9.300	3.4375
3.75	280.5	42.500	3.6595
4	302	84.000	3.937
4.5	345	167.000	4.492
6	474	416.000	6.157
7	560	582.000	7.267
8	646	748.000	8.377
9	732	914.000	9.487
9.5	775	997.000	10.042