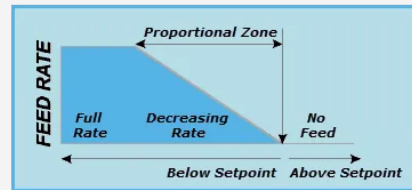


**Proportional Control**

The Proportional Control mode is recommended only for small bodies of water to prevent overfeeding from oversized feeders. In this mode, the outlet relay is turned ON and OFF at a rate that decreases as the set-point is neared. The rate goes down from 100% ON in a 100-second CYCLE TIME at the edge of the Progressive Zone to 0% at the set-point (see schematic).



Proportional control operates only within the defined Progressive Zone, outside the zone, control reverts to standard ON/OFF mode. The wider the Progressive Zone is, the more slowly and precisely the controller will return to the setpoint. As the width of the Progressive Zone is decreased, the reaction becomes faster and faster until eventually, one gets near the conditions of ON/OFF control.  
 \* It should be noted that longer time limits may be required to account for the slower effective feed rates.

ORP 750 mV												Setpoint	Deadband
50%	45%	40%	35%	30%	25%	20%	15%	10%	5%	Setpoint	Deadband		
off	off	off	off	off	off	off	off	off	off	750			
2.00	2.22	2.50	2.86	3.33	4.00	5.00	6.67	10.00	20.00	742.5			
4.00	4.44	5.00	5.71	6.67	8.00	10.00	13.33	20.00	40.00	735			
6.00	6.67	7.50	8.57	10.00	12.00	15.00	20.00	30.00	60.00	727.5	3%		
8.00	8.89	10.00	11.43	13.33	16.00	20.00	26.67	40.00	80.00	720	4%		
10.00	11.11	12.50	14.29	16.67	20.00	25.00	33.33	50.00	100.00	712.5	5%		
12.00	13.33	15.00	17.14	20.00	24.00	30.00	40.00	60.00		705	6%		
14.00	15.56	17.50	20.00	23.33	28.00	35.00	46.67	70.00		697.5	7%		
16.00	17.78	20.00	22.86	26.67	32.00	40.00	53.33	80.00		690	8%		
18.00	20.00	22.50	25.71	30.00	36.00	45.00	60.00	90.00		682.5	9%		
20.00	22.22	25.00	28.57	33.33	40.00	50.00	66.67	100.00		675	10%		
22.00	24.44	27.50	31.43	36.67	44.00	55.00	73.33			667.5	11%		
24.00	26.67	30.00	34.29	40.00	48.00	60.00	80.00			660	12%		
26.00	28.89	32.50	37.14	43.33	52.00	65.00	86.67			652.5	13%		
28.00	31.11	35.00	40.00	46.67	56.00	70.00	93.33			645	14%		
30.00	33.33	37.50	42.86	50.00	60.00	75.00	100.00			637.5	15%		
32.00	35.56	40.00	45.71	53.33	64.00	80.00				630			
34.00	37.78	42.50	48.57	56.67	68.00	85.00				622.5			
36.00	40.00	45.00	51.43	60.00	72.00	90.00				615			
38.00	42.22	47.50	54.29	63.33	76.00	95.00				607.5			
40.00	44.44	50.00	57.14	66.67	80.00	100.00				600			
42.00	46.67	52.50	60.00	70.00	84.00					592.5			
44.00	48.89	55.00	62.86	73.33	88.00					585			
46.00	51.11	57.50	65.71	76.67	92.00					577.5			
48.00	53.33	60.00	68.57	80.00	96.00					570			
50.00	55.56	62.50	71.43	83.33	100.00					562.5			
52.00	57.78	65.00	74.29	86.67						555			
54.00	60.00	67.50	77.14	90.00						547.5			
56.00	62.22	70.00	80.00	93.33						540			
58.00	64.44	72.50	82.86	96.67						532.5			
60.00	66.67	75.00	85.71	100.00						525			
62.00	68.89	77.50	88.57							517.5			
64.00	71.11	80.00	91.43							510			
66.00	73.33	82.50	94.29							502.5			
68.00	75.56	85.00	97.14							495			
70.00	77.78	87.50	100.00							487.5			
72.00	80.00	90.00								480			
74.00	82.22	92.50								472.5			
76.00	84.44	95.00								465			
78.00	86.67	97.50								457.5			
80.00	88.89	100.00								450			
82.00	91.11									442.5			
84.00	93.33									435			
86.00	95.56									427.5			
88.00	97.78									420			
90.00	100.00									412.5			
92.00										405			
94.00										397.5			
96.00										390			
98.00										382.5			
100.00										375			