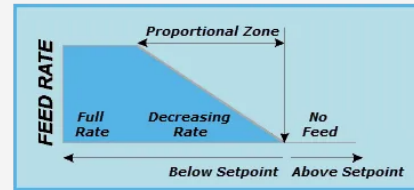


Proportional Control

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 500 mV												
50%	45%	40%	35%	30%	25%	20%	15%	10%	5%	Setpoint	Deadband	
off	off	off	off	off	off	off	off	off	off	500		
2.00	2.22	2.50	2.86	3.33	4.00	5.00	6.67	10.00	20.00	495		
4.00	4.44	5.00	5.71	6.67	8.00	10.00	13.33	20.00	40.00	490		
6.00	6.67	7.50	8.57	10.00	12.00	15.00	20.00	30.00	60.00	485	3%	
8.00	8.89	10.00	11.43	13.33	16.00	20.00	26.67	40.00	80.00	480	4%	
10.00	11.11	12.50	14.29	16.67	20.00	25.00	33.33	50.00	100.00	475	5%	
12.00	13.33	15.00	17.14	20.00	24.00	30.00	40.00	60.00	60.00	470	6%	
14.00	15.56	17.50	20.00	23.33	28.00	35.00	46.67	70.00	70.00	465	7%	
16.00	17.78	20.00	22.86	26.67	32.00	40.00	53.33	80.00	80.00	460	8%	
18.00	20.00	22.50	25.71	30.00	36.00	45.00	60.00	90.00	90.00	455	9%	
20.00	22.22	25.00	28.57	33.33	40.00	50.00	66.67	100.00	100.00	450	10%	
22.00	24.44	27.50	31.43	36.67	44.00	55.00	73.33	73.33	73.33	445	11%	
24.00	26.67	30.00	34.29	40.00	48.00	60.00	80.00	80.00	80.00	440	12%	
26.00	28.89	32.50	37.14	43.33	52.00	65.00	86.67	86.67	86.67	435	13%	
28.00	31.11	35.00	40.00	46.67	56.00	70.00	93.33	93.33	93.33	430	14%	
30.00	33.33	37.50	42.86	50.00	60.00	75.00	100.00	100.00	100.00	425	15%	
32.00	35.56	40.00	45.71	53.33	64.00	80.00	80.00			420		
34.00	37.78	42.50	48.57	56.67	68.00	85.00				415		
36.00	40.00	45.00	51.43	60.00	72.00	90.00				410		
38.00	42.22	47.50	54.29	63.33	76.00	95.00				405		
40.00	44.44	50.00	57.14	66.67	80.00	100.00				400		
42.00	46.67	52.50	60.00	70.00	84.00					395		
44.00	48.89	55.00	62.86	73.33	88.00					390		
46.00	51.11	57.50	65.71	76.67	92.00					385		
48.00	53.33	60.00	68.57	80.00	96.00					380		
50.00	55.56	62.50	71.43	83.33	100.00					375		
52.00	57.78	65.00	74.29	86.67						370		
54.00	60.00	67.50	77.14	90.00						365		
56.00	62.22	70.00	80.00	93.33						360		
58.00	64.44	72.50	82.86	96.67						355		
60.00	66.67	75.00	85.71	100.00						350		
62.00	68.89	77.50	88.57							345		
64.00	71.11	80.00	91.43							340		
66.00	73.33	82.50	94.29							335		
68.00	75.56	85.00	97.14							330		
70.00	77.78	87.50	100.00							325		
72.00	80.00	90.00								320		
74.00	82.22	92.50								315		
76.00	84.44	95.00								310		
78.00	86.67	97.50								305		
80.00	88.89	100.00								300		
82.00	91.11									295		
84.00	93.33									290		
86.00	95.56									285		
88.00	97.78									280		
90.00	100.00									275		
92.00										270		
94.00										265		
96.00										260		
98.00										255		
100.00										250		