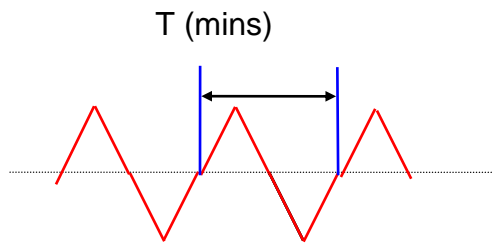# Controller Setup Notes

Set gain to minimum (maximum proportional band).
Integral action time to 1.
Derivative action time to 1.
Introduce a small disturbance by moving the setpoint.
Increase the gain in small steps(ie:- reduce P.B by 10% each time) until the measured value oscillates evenly at a constant amplitude. As shown below:-

T (mins)

Once the oscillations have stabilised the following settings may be applied dependent upon the number of modes of control required or available:-

Type of Control	PB	I.A.T	D.A.T
P	2PB	0	0
P.I	2.2PB	0.8T	0
P.I.D	1.67PB	0.5T	0.12T