



## Instructions For Using The SMD-200 Controller With Valves & Contactors

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### Using The SMD-200 Controller with Valves & Contactors

The SMD-200 PID controller was originally designed to control smokers with heat elements, but it can also be used for a gas smoker with gas valves. It can also be used to operate contractors.

The SMD-200 PID controller can only drive an SSR (Solid State Relay) So you use this controller to operate a small SSR, then use that SSR to operate your solenoid valve or electrical contractor. Depending on the type of your valve or contactor (DC or AC), you need an AC or DC SSR.

When using the SMD-200 to control valves or contactors two modes are available.

**PID ON** - The default PID parameters are preset for the SSR to pulse voltage to electric elements, and this may not be suitable when operating a valve or contactor because it could cause chatter (operating on and off too frequent).

If they need changing first set the output cycle time to at least 20 seconds and then auto tune the PID.

**OR**

**PID OFF** - Works like a thermostat. Please set **P = 1, I = 0, D = 0** and the **cycle time as 2 seconds**. P is the range for the hysteresis band (lag time). You can increase P value if you need larger hysteresis band to prevent valve or contactor chatter.

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