OPERATION

SINGLE-COIL OPERATION

Set single coil mode:
1. Adjust knob fully CCW.
2. Press and hold both buttons for 3-seconds.

Set min/max output:
1. Press LO/HI button. LED will blink.
2. Adjust knob to desired minimum output. Note: For NO ramping, press UP/DN button two more times and skip next steps to complete setup.
3. Press LO/HI button. LED will double-blink.
4. Adjust knob to desired maximum output.
5. Press LO/HI button. LED will light solid.

Set ramp up/down time:
1. Adjust knob fully CCW.
2. Press UP/DN button. LED will blink.
3. Turn knob fully CW at the desired ramp up rate. LED will double blink when knob is fully CW.
4. Turn knob fully CCW at the desired ramp down rate. LED will go out when knob is fully CCW.

DUAL-COIL OPERATION

Set dual coil mode:
1. Adjust knob fully CW.
2. Press and hold both buttons for 3-seconds.
3. Press LO/HI button. LED will blink.
4. Adjust knob to desired OUT 1 minimum output.
5. Press LO/HI button. LED will double-blink.
6. Adjust knob to desired OUT 1 maximum output.
7. Press LO/HI button. LED will blink.
8. Adjust knob to desired OUT 2 minimum output.
9. Press LO/HI button.
10. Press LO/HI button. LED will double-blink.
11. Adjust knob to desired OUT 2 maximum output.

Set ramp up/down time:
1. Adjust knob fully CCW.
2. Press UP/DN button. LED will blink. Note: For NO ramping, press UP/DN button two more times and skip next steps to complete setup.
3. Turn knob fully CW at the desired OUT 1 ramp up rate. LED will double blink when knob is fully CW.
4. Turn knob fully CCW at the desired OUT 1 ramp down rate. LED will blink when knob is fully CCW.
5. Turn knob fully CW at the desired OUT 2 ramp up rate. LED will double blink when knob is fully CW.
6. Turn knob fully CCW at the desired OUT 2 ramp down rate.
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>General</th>
<th>Power requirement</th>
<th>9-30vdc, 50mA nominal + power to loads</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outputs</td>
<td>PWM Frequency</td>
<td>200Hz</td>
</tr>
<tr>
<td></td>
<td>Dither</td>
<td>Fixed</td>
</tr>
<tr>
<td></td>
<td>PWM current</td>
<td>0 to supply voltage, 5-amps max</td>
</tr>
<tr>
<td></td>
<td>Ratiometric (PC20-PVG version)</td>
<td>20% to 80% supply voltage; 50% neutral</td>
</tr>
<tr>
<td></td>
<td>Adjustments</td>
<td>Min/Max: 0 to V+</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ramp up/down: Timed, up to 5 seconds</td>
</tr>
<tr>
<td></td>
<td>Deadband</td>
<td>Built-in 10 degree deadband around neutral position</td>
</tr>
<tr>
<td>Input</td>
<td>Potentiometric</td>
<td>Controlled by built-in potentiometer</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Overall</td>
<td>3.0” L x 1.6” W x 1” H (behind panel depth)</td>
</tr>
<tr>
<td></td>
<td>Mounting</td>
<td>2 x #8-32 X 1/2” machine screws</td>
</tr>
<tr>
<td>Environmental</td>
<td>Storage</td>
<td>-40°C to 85°C</td>
</tr>
<tr>
<td></td>
<td>Operating</td>
<td>-10°C to 60°C</td>
</tr>
</tbody>
</table>

**WIRING**

OUT 1
- Proportional output - Clockwise from neutral

OUT 2
- Not used.

**INSTALLATION**

- PANEL NUT
- LOCK
- BOLT
- PC20
- KNOB
- CHASSIS GROUND
- BATTERY POSITIVE (+)
- COIL 1
- COIL 2
- OPTIONAL POWER SWITCH
- 5-AMP FUSE (RECOMMENDED)

**TABLE**

<table>
<thead>
<tr>
<th></th>
<th>OUT 1</th>
<th>OUT 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE</td>
<td>Proportional output - Clockwise from neutral</td>
<td>Not used.</td>
</tr>
<tr>
<td>DUAL</td>
<td>Proportional output - Clockwise from center.</td>
<td>Proportional output - Counterclockwise from center.</td>
</tr>
</tbody>
</table>