One pot or joystick controls one proportional output.

**FEATURES**

- **Simple, Complete Solution**
  Complete, single component interface allows virtually any joystick or potentiometer to directly control a PWM current operated valve actuator.

- **Universal Inputs**
  Compatible with a wide range of input devices, including potentiometers, transducers, and other devices producing 0 to 10vdc, 0 to 5vdc, or 0.5 to 4.5vdc control signals. Also accepts inputs from switches for manual override.

- **Fully Adjustable**
  Adjustable min, max, ramp-up, ramp-down, dither, and threshold (deadband). Great for setting a desired operating range and “feel.”

- **Versatile Outputs**
  One high-capacity proportional output and one digital output are ideal for simple control applications. Outputs can drive up to 5-amp coils directly.

**OPERATION**

**Input Signal**
Jumper selectable 0 to 5vdc or 0.5 to 4.5vdc input. Use resistor divider (see installation instructions) to accommodate 0-10vdc input signal. Use 250-ohm shunt resistor (see installation instructions) to accommodate 4 to 20mA input signal.

**Adjustments**
Min, max, ramp up, ramp down, dither, and threshold (deadband) are adjustable from 0-99% of full-scale range. See specifications for adjustment ranges.

**Outputs**
Proportional and digital outputs can drive up to 5-amp coils directly. Digital output operates whenever joystick or pot is above threshold (deadband) setting. This output can be used to operate a pump or other control valve.

**Manual Operation**
Inputs are provided for a toggle switch to manually override or “bump” the output signal without using a joystick or potentiometer.

**OPERATION DIAGRAM**

**SETUP**
Pushbutton and LED menu interface simplifies adjustments. Digital setup eliminates guesswork.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>PC100</td>
<td>Single coil valve driver</td>
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SPECIFICATIONS

General
- Power requirement: 9-30vdc, 250mA nominal + power to loads
- Fuse: Blade fuse, 15-amp

Digital Output
- Type: Sourcing
- Output: Same as supply voltage, 5-amps max

PWM Output
- Frequency: 1700Hz
- Dither: 100Hz, 0-10% of max current
- Output: Same as supply voltage, 5-amps max
- Adjustments:
  - Min/Max: 0-5-amps
  - Ramp up/down: 0.1 to 5 seconds
  - Threshold: 0 to 2vdc
  - Dither: 0-10%

Analogue Input
- Signal Range:
  - 0 to 5vdc or 0.5 to 4.5vdc, jumper selectable
- Courtesy Power:
  - +5vdc, 50mA max signal provided for potentiometer
  - 1k pot recommended

Digital Inputs
- Manual Switches: Dry contact - connect “SEND” to SW1+ or SW1-
- Disable: Connect to power terminal to disable control
  - Do not use disable input for safety control

Dimensions
- Overall: 4.8”L x 4.25”W x 1.125”D
- Mounting: 4 x #6 self-tapping screws

Environmental
- Storage: -40ºC to 85ºC
- Operating: -10ºC to 60ºC

WIRING EXAMPLES: