**PC20 Panel Mounted Proportional Control**

*Panel mounted proportional valve driver with integrated potentiometer*

**FEATURES**

- **Easy Installation**
  Built in potentiometer reduces wiring and simplifies installation. Installs directly on control panel with only 2 screws. Knob, panel seal, hardware, and centering spring (optional) included.

- **Easy Setup**
  Pushbutton “teach” feature simplifies setup of min/max output adjustment and ramp up/down time. No PC, PDA, or other tools needed.

- **Flexible**
  Operates one or two valve coils for speed and direction control. Version available for ratiometric valve actuators.

- **Proportional Control**
  High-resolution solid-state output(s) for fine control of loads up to 5-Amps DC

- **Compact Size**
  Only 1.6” wide - Fits easily in tight spaces. Ideal building block for control panels.

- **Rugged Construction**
  Robust potted module keeps electronics protected. IP65 environmentally rated pushbuttons and potentiometer.

**OPERATION**

Controller provides proportional PWM or ratiometric output(s) up to 5-Amps from the position of a built-in potentiometer.

The PC-20 can be field programmed to operate in single-coil or dual-coil mode.

In single-coil mode, the built-in potentiometer controls a single proportional output over the full mechanical range of the knob.

In dual-coil mode, Output 1 is controlled from the center position of the knob to the fully CW position, and Output 2 is controlled from the center position of the knob to the fully CCW position.

The minimum/maximum output settings, and ramp up/down times are fully programmable in the field for single and dual-coil operation.

Field programming is accomplished using only 2 pushbuttons and the control knob. See operation manual for complete programming instructions.

**DIMENSIONS**

**ORDERING INFORMATION**

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<th>PART #</th>
<th>DESCRIPTION</th>
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<td>PC20</td>
<td>Proportional Controller, Single/Dual valve speed/direction control</td>
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Knob and panel seal not shown.
### SPECIFICATIONS

**General**
- Power requirement: 9-30vdc, 50mA nominal + power to loads

**Outputs**
- PWM Frequency: 200Hz
- Dither: Fixed
- PWM current: 0 to supply voltage, 5-amps max
- Adjustments: Min/Max: 0 to V+ Ramp up/down
- Deadband: Built-in 10 degree deadband around neutral position
- Potentiometric: Controlled by built-in potentiometer

**Dimensions**
- Overall: 3.0” L x 1.6” W x 1” H (behind panel depth)
- Mounting: 2 x #8-32 X 1/2” machine screws

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

### WIRING

**OUT 1**
- Proportional output - Clockwise from neutral
- Not used.

**OUT 2**
- Proportional output - Clockwise from neutral
- Proportional output - Counterclockwise from neutral

### INSTALLATION