

## PVD3X2E, Proportional Valve Driver, dual PWM solenoid outputs, epoxy potted

### Benefits and Features:

- Versatile digital design
- Large, easy-to-use adjustments and 3-digit seven-segment LED display
- Wide range of supply voltage
- Electronic limiting circuit / short circuit proof
- Load can be connected & disconnected live
- Protected against wrong connection
- Simple control with analog input
- Can be used for one dual solenoid proportional valve
- Energy efficient PWM circuit, no heat sink is required
- Current sensing maintains output regardless of changes in supply voltage and coil resistance



### Specifications:

- Operating voltage: 9 - 35VDC
- Maximum output: 3A
- Ramp time: 0.0 to 99.5s
- Linearity: 0.5%
- Protection grade: IP67
- Input signal: differential -10V to +10V
- PWM / Dither frequency: 50-500Hz
- Operating temperature:  
-40° to +75° Celsius
- Size: 3.00" x 0.875" x 3.25" (4.00" with flanges)

## Settings & Range:

**AHI:** A high, output current corresponding to the highest input, in Amps  
**AJg:** A jog, used to simulate signal, in Amps  
**ALO:** A low, output current corresponding to the lowest input, in Amps  
**AUP:** A ramp up, time required for the output to increase from **ALO** to **AHI**, in seconds  
**Adn:** A ramp down, time req'd for the output to decrease from **AHI** to **ALO**, in seconds  
**Adb:** A deadband, output is disabled when signal is less than this setting, in %

**BHI:** B high, output current corresponding to the highest input, in Amps  
**BJg:** B jog, used to simulate signal, in Amps  
**BLO:** B low, output current corresponding to the lowest input, in Amps  
**BUP:** B ramp up, time required for the output to increase from **BLO** to **BHI**, in seconds  
**Bdn:** B ramp down, time req'd for the output to decrease from **BHI** to **BLO**, in seconds  
**Bdb:** B deadband, output is disabled when signal is less than this setting, in %

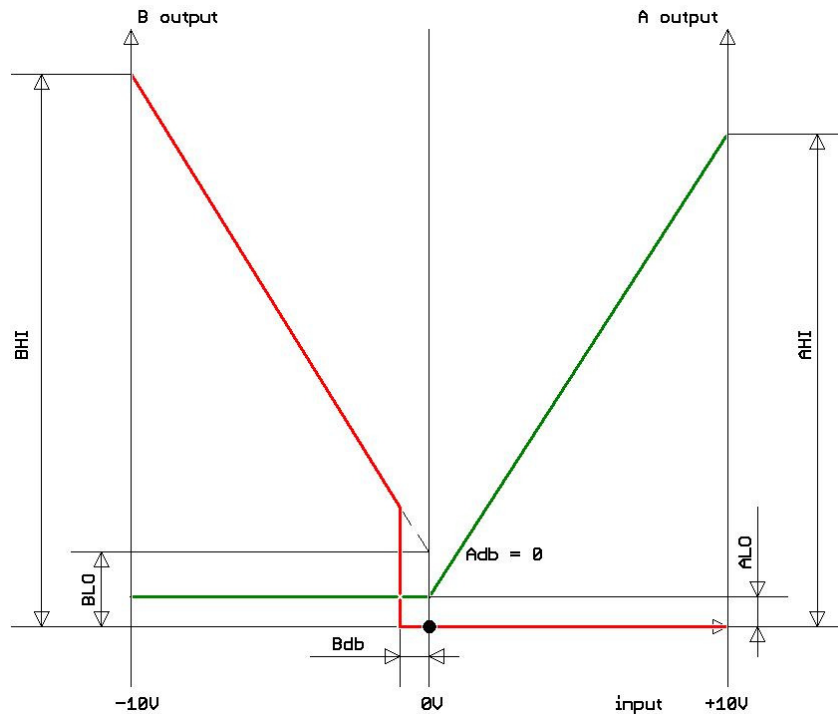
**dF:** dither frequency, in Hz  
**di:** display orientation, normal or up-side-down  
**SA:** save settings

## Set-Up Procedure:

At power up, you may rotate the left side control **#** to select the variable displayed: **Ain** (A input), **Aot** (A output), **Bin** (B input) or **Bot** (B output), the actual solenoid output current directly in Amps or the command input signal in V or mA, corresponding to the input range pre-selected. To enter set-up mode, rotate right side control **\***; the display will show the settings sequentially: **AHI**, **AJg**, **ALO**, **AUP**, **Adn**, **Adb**, **BHI**, **BJg**, **BLO**, **BUP**, **Bdn**, **Bdb**, **dF**, **di** and **SA**. When you reach the setting that you want to modify, rotate **#** up or down to the desired value. To modify another setting, rotate **\*** and repeat. The Driver is fully functional during the set-up procedure with any adjustments effective immediately (except the input range selection that becomes effective only after saving). In order to write the new settings in the memory and return to normal mode of operation, rotate **\*** until the display shows **SA** and then rotate **#**. If you do not want to keep the new settings, simply power down without saving.

WE RESERVE THE RIGHT TO DISCONTINUE MODELS OR CHANGE SPECIFICATIONS WITHOUT NOTICE OR INCURRING OBLIGATION

Functional diagram, dual solenoid proportional valve:



Wiring diagram:

