

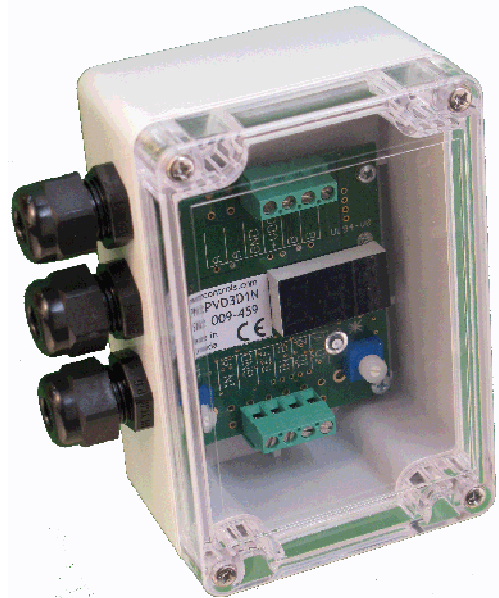


## PVD3D1N

Proportional Valve Driver, one PWM solenoid output, in sealed plastic enclosure

### BENEFITS AND FEATURES:

- Versatile digital design
- Large, easy-to-use adjustments and three-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
- Energy-efficient PWM circuit, no heat sink is required
- Current sensing maintains output regardless of changes in supply voltage and coil resistance
- Simple control with analog input, the reference voltage is locally supplied
- Plastic box with clear lid
- Three PG7 liquid-tight cable glands for power, signals and coil



### SPECIFICATIONS:

- Operating voltage: 9 - 35VDC
- Maximum output current: 3A
- Ramp time: 0.0 to 99.5s
- Linearity: 0.5%
- PWM / Dither frequency: 50-500Hz
- Operating temperature: -40° to +75° Celsius
- Input signals: user selectable 0-5V, 0-10V, 0-20mA or 4-20mA
- Size: 4.75" long x 2.25" deep x 3.15" wide (4.15" with cable glands)

This product fulfills the essential requirements of the EMC Directive 2004/108/EC: EN61000-6-1:2005, EN61000-6-3:2006



# DATA SHEET

## PROPORTIONAL VALVE DRIVERS



### PVD3D1N

Proportional Valve Driver, one PWM solenoid output, in sealed plastic enclosure

#### SETTINGS AND RANGE:

- HI** High, output current corresponding to the highest input, 0.00 to 3.00 A
- JS** Jog, used to simulate signal, 0.00 to 3.00 A
- LO** Low, output current corresponding to the lowest input, 0.00 to 3.00 A
- UP** Ramp up, time required for the output to increase from LO to HI, 00.0 to 99.5 s
- dn** Ramp down, time required for the output to decrease from HI to LO, 00.0 to 99.5 s
- db** Deadband, output is disabled when command signal is less than this setting, in %
- dF** Dither frequency, 050 to 500 Hz
- in** Input signal selection, 005 (0-5V), 010 (0-10V), 020 (0-20mA) or 420 (4-20mA)
- 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 read **ot** - the actual solenoid output current directly in Amps or **in** - the command input signal in V or mA, corresponding to the input range preselected. To enter set-up mode, rotate right side control \*; the display will show the settings sequentially: **HI**, **JS**, **LO**, **UP**, **dn**, **db**, **dF**, **in**, **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 # one full turn. If you do not want to keep the new settings, simply power down without saving.

PVD3D1N

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

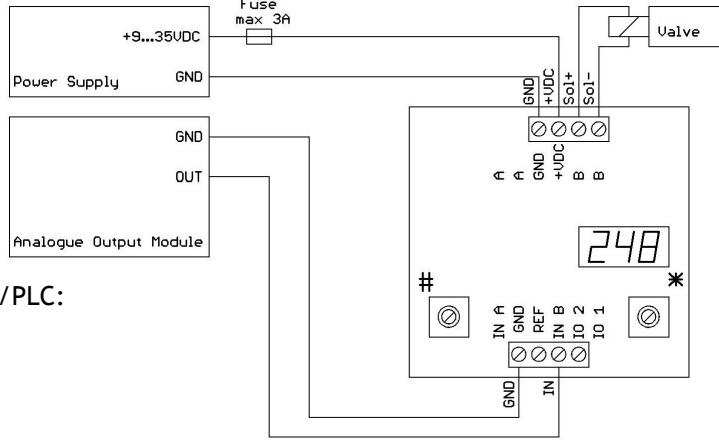


# PVD3D1N

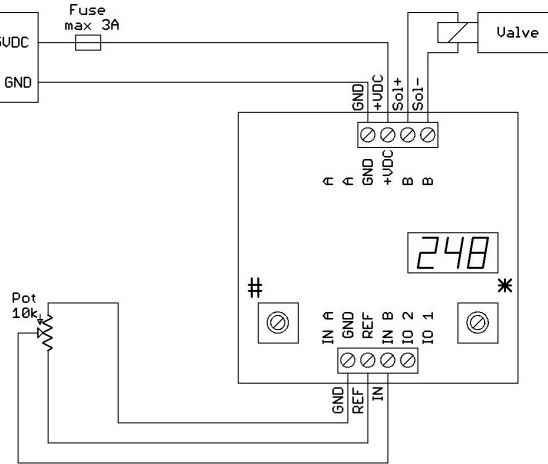
Proportional Valve Driver, one PWM solenoid output, in sealed plastic enclosure

## WIRING DIAGRAMS:

With signal from Analogue Card/PLC:



With signal from potentiometer/joystick:



With switch for soft shift between two presets:

