

Reliable Controls® MACH-System

Reliable controls

...people and technology
you can rely on™

VARIABLE DC POWER SUPPLY

HALF-WAVE RECTIFIED DESIGN

PROVIDES POWER TO TRANSDUCERS, GAS-DETECTORS, AND HUMIDITY SENSORS

CHARGE VOLTAGE FROM 0-24 VDC

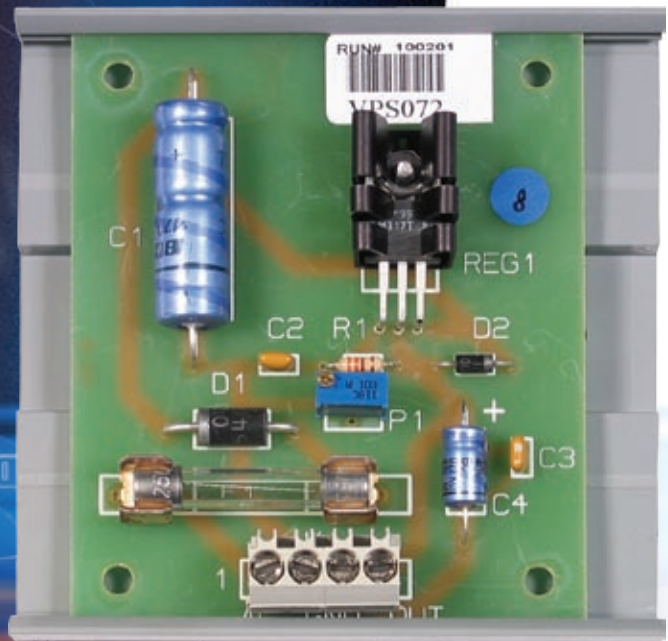
FIELD ADJUSTABLE POTENTIOMETER

EASY SNAP-TRACK MOUNTING

FUSE-PROTECTED CIRCUITRY

5 YEAR WARRANTY

POWER SUPPLY – VDC



The Reliable Controls® PS-VDC is a robust, low-cost variable DC power supply for energizing building automation peripheral devices.



The PS-VDC is a Variable Power supply board suited to powering such devices as pressure transducers, gas detectors, and humidity sensors, which require a DC power supply. The PS-VDC can be field adjusted to give the desired output voltage by adjusting the trimmer/ potentiometer (P1). The board uses a half-wave rectifier such that the AC supply and DC output share the same ground. This eliminates the need for separate transformers for other equipment on the same ground. An onboard fuse limits input current supplied to 1.5 amps regardless of output voltage.

FEATURES

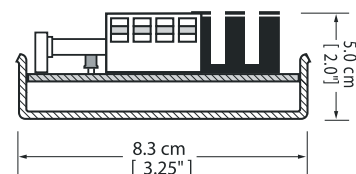
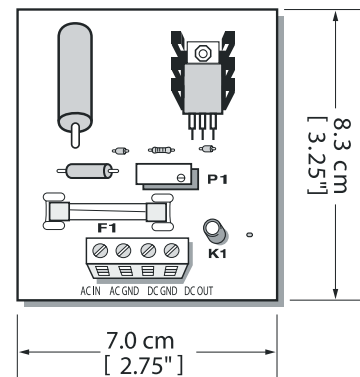
- Onboard trimmer/potentiometer
- 0–24 VDC power
- Onboard fuse
- Easy snap-track mounting
- Half-wave rectified design

ORDERING

PS-VDC

- shipped configured as 10 VDC output

APPLICATION DIAGRAM



TECHNICAL SPECIFICATION

Maximum Input Voltage

- 26 VAC

Maximum Output Voltage

- 25 VDC

Output Current

- 0.75 amps @ 10 VDC
- 0.5 amps @ 15 VDC
- 0.2 amps @ 24 VDC

Mounting

- 8.3 cm L x 7.0 cm W (finished board) (3.25" L x 2.75" W)
- Standard 3.25" (8.25 cm) snap track mounting

Weight

- 0.10 kg (0.22 lb)

Ambient Limits

• Operating:

-10 °C to 65 °C
(0.0 °F to 104 °F)

• Shipping:

-40 °C to 60 °C
(-20 °F to 140 °F)

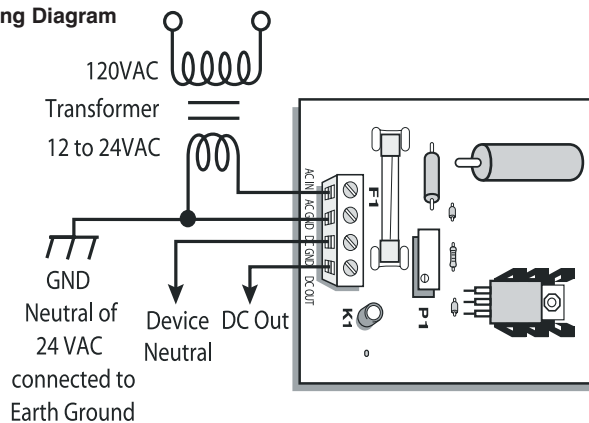
• Humidity:

10% to 90% RH
(non-condensing)

Warranty

- 5 years

Wiring Diagram



Wiring Notes

- If AC power is taken from a transformer which is powering other equipment, ensure that the grounds for all equipment are connected to the same leg of the transformer
- The AC power ground and the DC ground are internally connected, and need to be connected to earth ground once only. The board utilizes a half wave rectifier based supply
- Input Voltage: 12 VAC gives Maximum Output Voltage of 14 VDC
- Input Voltage: 24 VAC gives Maximum Output Voltage of 25 VDC