

# PWM Converters

**Application:**  
Industrial controls,  
mobile equipment

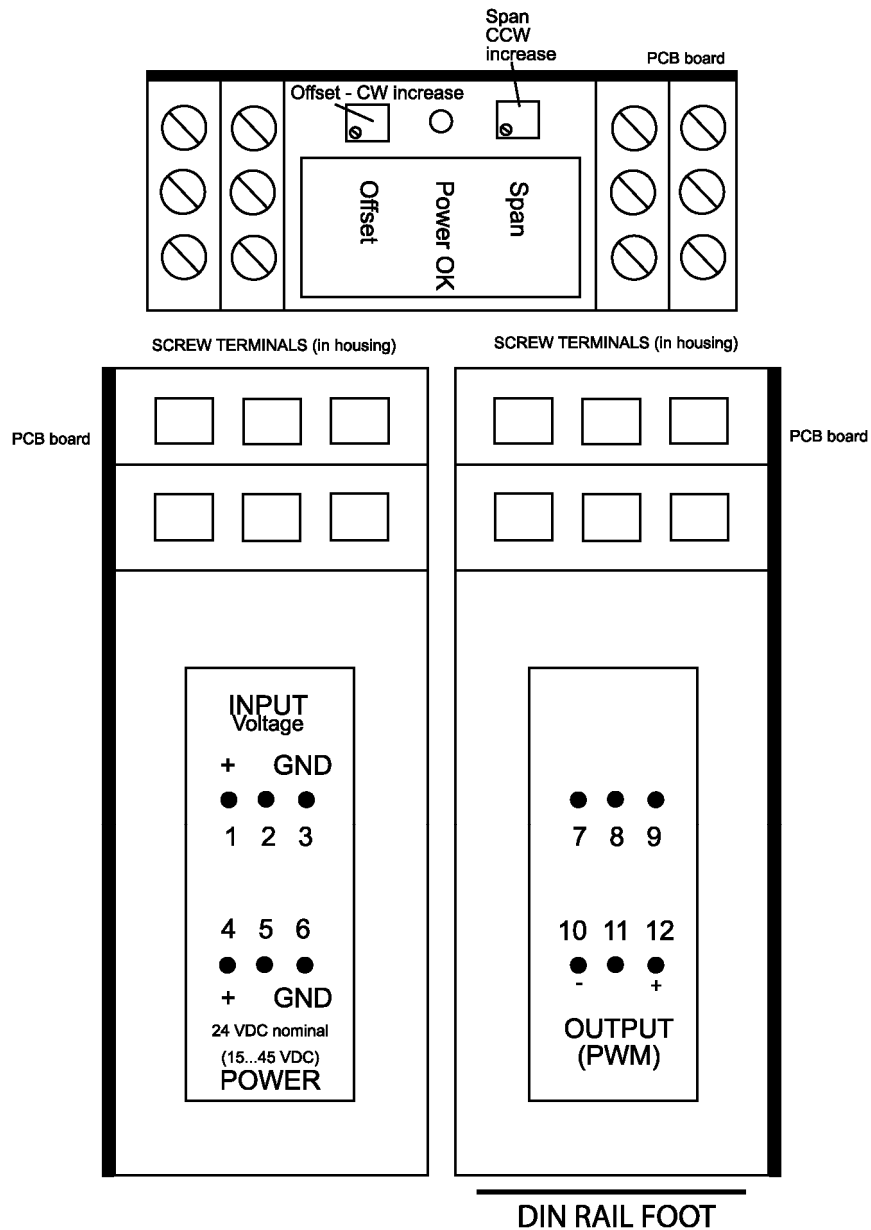
*All specifications typical at nominal  
input voltage and 25 degrees C  
unless otherwise specified.*

**Description:** PWM Converters  
provide a compact solution for  
converting current or voltage into  
digital pulse width modulated  
(PWM) signal.

## Technical Specifications:

### 0-10 VDC to PWM

<b>Ordering Part Number:</b>	VPWM-DR-10V
<b>Input Specifications:</b>	
<i>Voltage</i>	Fully isolated 0-10 VDC
<b>Output Specifications:</b>	
<i>PWM Output</i>	PWM frequency 475 Hz +/-10% 5-95% (Variable Active High) Open collector Over-current protection
<i>Output Voltage (High)</i>	<36 V, <10 mA
<i>Settling Time</i>	<100 mSec.
<b>General Specifications:</b>	
<i>Power Supply</i>	24VDC (15-45VDC) Transient protection Output voltage follows input voltage.
<i>Reverse Polarity Protection</i>	Provided
<i>Response Time</i>	10 mSec.
<i>Accuracy</i>	0.5%
<i>Stability</i>	0.1%
<i>Power Consumption</i>	29 mA @ 15VDC 20 mA @ 24VDC
<i>Operating Conditions</i>	-40 to 85 degrees C (-40 to 185 degrees F) 0-95% relative humidity
<i>Vibration</i>	IEC 68-2-64
<i>Adjustments</i>	Span and Offset (Zero) Factory configured to 0% and 100%
<i>Electrical connection</i>	#14 AWG screw terminals
<i>Packaging</i>	DR12, DIN rail mount 16 Amp max. current rating Polycarbonate
<i>Dimensions</i>	75 x 98.5 x 22.5 mm (W x H x D) 2.95 x 3.87 x 0.88 inches
<i>Weight</i>	0.25 lbs. (0.11 kg)
<i>Protection</i>	IP40 (housing), Terminals IP20



Specifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Approvals/Limitations and Return Materials Process as described on [www.axiomatic.com/service.html](http://www.axiomatic.com/service.html).

Form: TD2002AX-07/20/09