

# PWM Converters



**P/N: PWMI-WG8-10**  
 PWM to 4-20mA  
 with max. 500 Ohm Load

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

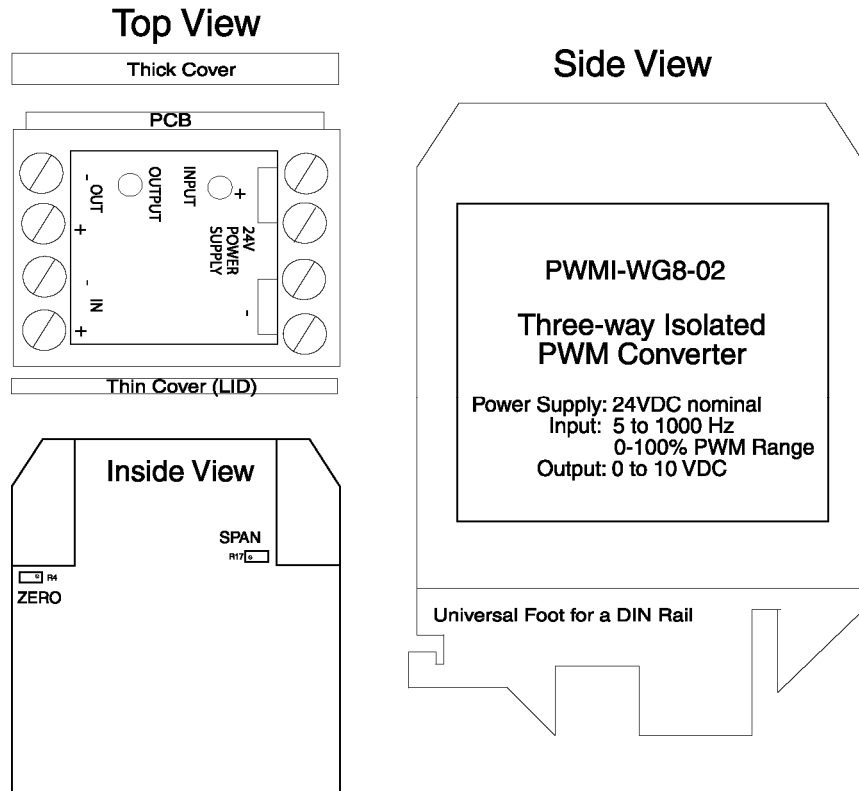
*Applications:* Industrial controls

**Technical Specifications:** All specifications typical at nominal input voltage and 25 degrees C unless otherwise specified

|                                    |   |
|------------------------------------|---|
| <b>Ordering Part Number:</b>       | <b>PWMI-WG8-10</b>  |
| <b>Input Specifications:</b>       |   |
| <i>PWM</i>                         | Fully isolated<br>PWM frequency 50 to 5,000 Hz<br>PWM range 0-100%            |
| <i>Input Voltage</i>               | Low <1.5V<br>High >3.5V (50V max.)<br>TTL and CMOS compatible                 |
| <i>Input Impedance</i>             | 200kOhm   |
| <b>Output Specifications:</b>      |   |
| <i>Output Impedance</i>            | 1 Ohm<br>Transient protection included<br>Short circuit protection            |
| <i>Current Output</i>              | 4-20mA  |
| <i>Compliance Voltage</i>          | 10VDC   |
| <i>Maximum Load Resistance</i>     | 500 Ohms  |
| <b>General Specifications:</b>     |   |
| <i>Response Time</i>               | 100 mSec.   |
| <i>Power Supply</i>                | 24VDC+/-10%<br>Transient protection   |
| <i>Reverse Polarity Protection</i> | Provided  |
| <i>Power Consumption</i>           | 30 mA   |
| <i>Operating Conditions</i>        | -40 to 85 degrees C (-40 to 185 degrees F)<br>0-95% relative humidity         |
| <i>Adjustments</i>                 | Span and Offset (Zero)<br><i>factory configured</i>                           |
| <i>Electrical connection</i>       | #12 to #22 AWG screw terminals  |
| <i>Packaging</i>                   | Wieland WEG8, DIN rail mount  |
| <i>Dimensions</i>                  | 60.6 x 90.5 x 28.5 mm (WxHxD)<br>2.38 x 3.56 x 1.12 inches excluding DIN rail |

## Connections and Adjustments

PWMI-WG8-02 is shown below. (PWMI-WG8-10 has the same connections and adjustments.)



*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: TD2017AX-02/11/08