

PWM to V/I Signal Converters



P/N: PWMI-WG8-XX

(3 Sec. response time) xx = 01 (0-5 VDC) 02 (0-10 VDC) 03 (0-20 mA) 04 (4-20 mA)

(100 mSec. response time) **xx** = 05 (0-5V DC) 06 (0-10 VDC) 07 (0-20 mA) 08 (4-20 mA) 10 (4-20 mA) with 500 Ohm load

(200 mSec. response time)

xx = 11 (4-18 mA)

(750 mSec. response time) **xx =** 09 (0.5 – 4.5 VDC)

ime)

Signal Converters provide a compact solution for converting digital pulse width modulated (PWM) signal into current or voltage. Current to PWM converters are also available.

Applications:

TECHNICAL DATASHEET #TD2011AX

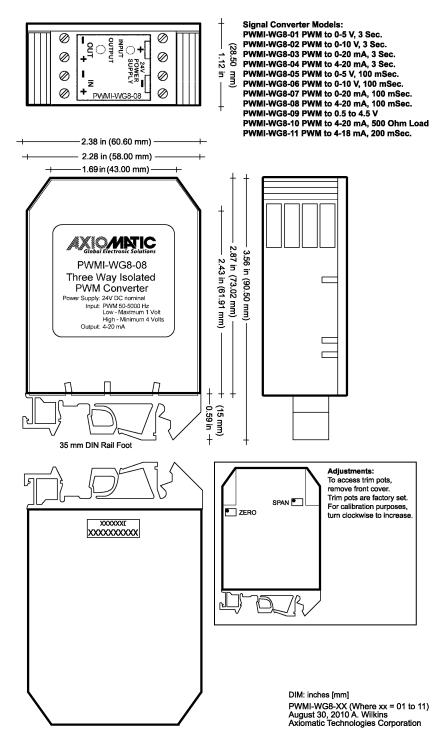
Description:

Industrial and machine controls

Ordering Part Number:	PWMI-WG8-01, 02, 03, 04	PWMI-WG8-05, 06, 07, 08, 10	PWMI-WG8-11	PWMI-WG8-09	
Response Time:	3 Seconds	100 mSec.	200 mSec.	750 mSec.	
Technical Specifications:					
	ominal input voltage and 25 degrees	C unless otherwise	e specified.		
Input Specifications:					
PWM Frequency and Range	Fully isolated PWM 5 to 1,000 Hz, 0-100%	Fully isolated PWM 50 to 5,000 Hz, 0-100%	Fully isolated PWM 64 Hz, 50-90%	Fully isolated PWM 15 kHz, 0-100%	
Input Voltage	Low <1.5V High >3.5V (50V max.) TTL and CMOS compatible		Low <5.2V High >6.5V (50V max.)		
Input Impedance	200kOhm		200kOhm	20kOhm	
Output Specifications:					
Voltage Output	Fully isolated <i>PWMI-WG8-01, 02, 05, 06</i> : 0-5VDC or 0-10VDC (user s PWMI-WG8-09: 0.5 to 4.5VDC Active output			ectable)	
Output Impedance	1 Ohm Transient protection included Short circuit protection				
Current Output	PWMI-WG8-03, 04, 07, 08: 0-20 mA or 4-20 mA (user selectable) PWMI-WG8-10: 4-20 mA, Compliance Voltage 10VDC PWMI-WG8-11: 4-20 mA (4-18 mA factory setting)				
Compliance Voltage	PWMI-WG8-01,2,3,4,5,6,7,8,9, 11: 6.5VDC <i>PWMI-WG8-10</i> : Compliance Voltage 10VDC				
Maximum Load Resistance	PWMI-WG8-01,2,3,4,5,6,7,8,9,11: 325 Ohms PWMI-WG8-10: 500 Ohms				
General Specifications:					
Power Supply	24VDC+/-10% Transient protection				
Reverse Polarity Protection	Provided				
Power Consumption	30 mA				
Operating Conditions	-40 to 85 degrees C (-40 to 185 degrees F) 0-95% relative humidity				
Adjustments	Span and Offset (Zero) factory configured				
Electrical connection	#12 to #22 AWG screw terminals				
Packaging	PCB is conformal coated Housing (Wieland WEG8), Polyamide 6.6 plastic, UL94V-0, DIN rail mount				
Dimensions		60.6 x 90.5 x 28.5 mm (W x H x D) 2.38 x 3.56 x 1.12 inches excluding DIN rail			
Weight	0.15 lbs. (0.07 kg)				
Protection	IP20				
Grounding	The converter provides full isolation between input, output and power. Therefore, grounding is not necessary. If grounding is desired, however, the input, output and power grounds can be tied together.				
	ii grounding is desired, nowey	rei, me input, output a	and power grounds o	san be tied together.	

Axiomatic Technologies Oy Höytämöntie 6 33880 LEMPÄÄLÄ, Finland Tel. +358 103 375 750 salesfinland@axiomatic.com www.axiomatic.fi Axiomatic Technologies Corporation 1445 Courtneypark Dr. E. Mississauga, ON Canada L5T 2E3 Tel. 1 905 602 9270 sales@axiomatic.com www.axiomatic.com

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 https://www.axiomatic.com/service/.

Form: TD2011AX-06/09/23