

TECHNICAL DATASHEET #TD2302AX

Isolated Current Converter

P/N: IIC-DR-22

Description: The Isolated Current Converter accepts a 24VDC power supply (nominal). A 0-200 mA input signal is converted to a 4-20 mA current output. Span and zero are user adjustable. Diagnostic LEDs indicate power and operational status. The output LED is on when the load, input signal and power supply are connected. The LED flashes when the load is disconnected. The load can be floating or grounded. The unit is available in a DIN rail mount housing.

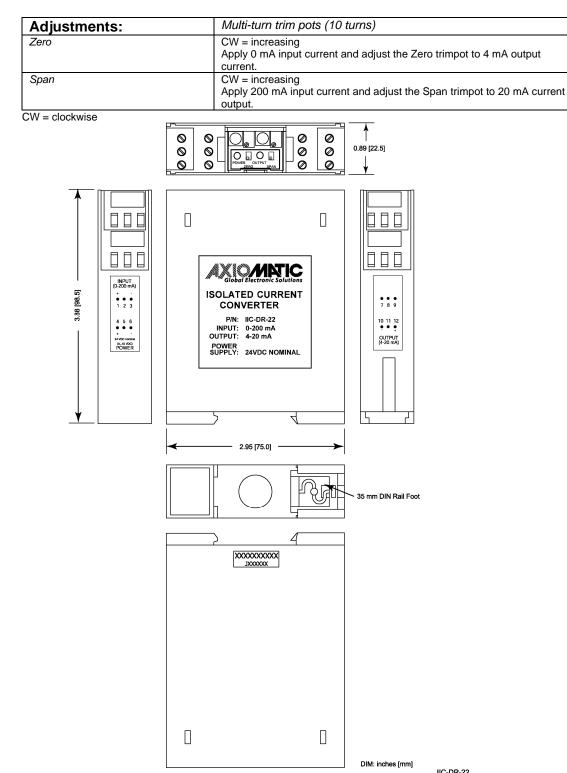


Application: As part of a load management strategy for a marine propulsion system, the unit converts a 0-200 mA load signal from a diesel engine control computer to a 4-20 mA signal for a variable pitch propeller control system.

Technical Specifications:

Typical at nominal input voltage and 25 degrees C unless otherwise specified

Ordering Part Number:	IIC-DR-22
Input Specifications:	
Current Input	0-200 mA
Isolation	Isolated from output and power supply.
Output Specifications:	
Current Output	4-20 mA
Isolation	Isolated from input and power supply.
Response Time	10 mSec.
Non-linearity	<0.1% without adjustments performed
General Specifications:	
Power Supply	24VDC nominal (9-45VDC operating range)
	Transient protection is provided.
Power Consumption	48 mA @ 12VDC
	20.2 mA @ 24VDC
Reverse Polarity Protection	Provided
Power LED Indicator	ON = Power OK
Output LED Indicator	ON when load, input signal and power supply are connected. FLASHING when load is disconnected.
Operating Conditions	-40 to 85 degrees C (-40 to 185 degrees F)
Electrical Connection	Screw terminals accept 14-24 AWG wire
Weight	0.25 lbs. (0.113 kg)
Protection	PCB conformal coated
	IP40 rated housing, Terminals rated at IP20
Packaging and Dimensions	DR12, Polycarbonate
$(W \times H \times D)$	(75 x 98.5 x 22.5 mm or 2.95 x 3.88 x 0.89 inches)
	DIN rail mount for high profile DIN rail (35 mm)



June 12, 2010 A. Wilkins Axiomatic Technologies Corporation

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.

Form: TD2302AX-07/24/12

TD2302AX 2