

4-20 mA to Current Converter P/N: IC-DR-XX and AX130300

Where xx = 11 (0-200 mA output) 12 (20 - 160 mA output) 14 (0-50 mA output) 18 (40-160 mA output) 20 (0-100 mA output) 24 (0-160 mA output) 25 (20-200 mA output) AX130300 (5-195 mA output)

Description: The Current Converter accepts a 24VDC power supply (nominal) and a 4-20mA input signal converting it to a current output. Various outputs are available, including 0-200 mA, 20-200 mA, 5-195 mA, 0-100 mA, 20-160 mA, 40-160 mA, 0-160 mA or 0-50 mA. Span and zero is user adjustable. A diagnostic LED indicates operational status, glowing green when the load, input signal and power supply are connected. The load should be floating, isolated from ground. The circuit board is conformal coated and the unit is available in a 35 mm DIN rail mount housing.



Application:

Industrial automation Power generation controls

Technical Specifications:

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

Ordering Part Number:	IC-DR-xx $4-20 mA to Current Converter$ Where $xx = Output current default settingxx = 11 (0-200mA output)xx = 12 (20-160mA output)xx = 14 (0-50 mA output)xx = 14 (0-50 mA output)xx = 20 (0-160 mA output)xx = 20 (0-100 mA output)xx = 24 (0-160 mA output)xx = 25 (20-200 mA output)xx = 25 (20-200 mA output)AX130300: 4-20 mA input, 5-195 mA output$
Input Specifications:	AX 130300: 4-20 MA INPUT, 5-195 MA OUTPUT
Current Input	4-20mA
Input Impedance	50 Ohms +/- 1%

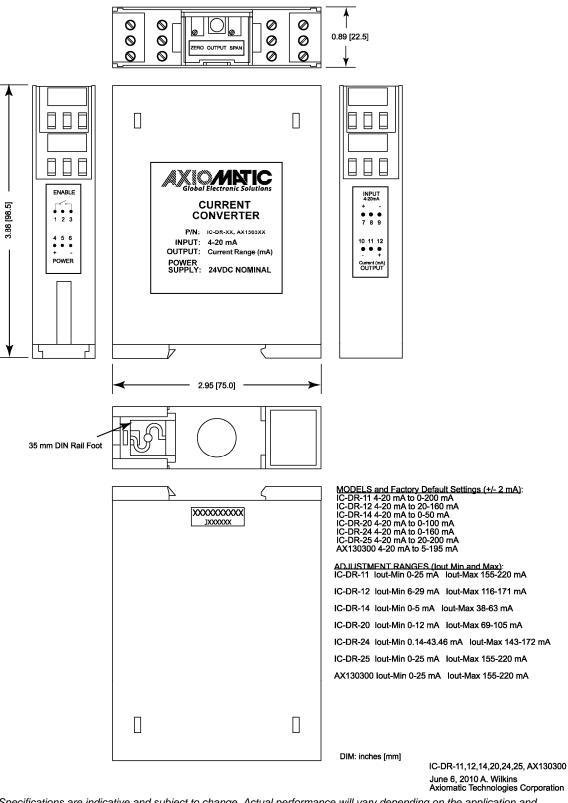
Output Specifications:					
Current Output	Factory settings +/- 2mA:IC-DR-11 = 0-200mAIC-DR-12 = 20-160 mAIC-DR-14 = 0-50 mAIC-DR-18 = 40-160 mAIC-DR-20 = 0-100 mAIC-DR-24 = 0-160 mAIC-DR-25 = 20-200 mAAX130300 = 5-195 mA(Other current output ranges are available on request.)Connect output to the output positive terminal and not to GND.				
Output Impedance	<40 MOhm				
Response Time	<5 mSec.				
Non-linearity	<0.1% without adjustments performed				
General Specifications:					
Power Supply	24Vdc nominal (15-45Vdc operating range) Transient protection is provided.				
Power Consumption	550 milliwatts All measurements taken at 24VDC, full output current (max.).				
Reverse Polarity Protection	Provided				
Operating Conditions	-40 to 85 degrees C (-40 to 185 degrees F)				
Electrical Connection	Screw terminals accept 14-24 AWG wire				
Enable (enables output through closing a mechanical relay contact)	To enable operation, externally short terminals 1 and 3.				
Packaging and Dimensions (W x H x D)	DR12, Polycarbonate DIN rail mount (75 x 98.5 x 22.5 mm or 2.95 x 3.88 x 0.89 inches) for high profile DIN rail (35 mm)				
Protection	PCB conformal coated IP40 rated housing, Terminals rated at IP20				
Weight	0.25 lb. (0.11 kg)				
Adjustments:	Multi-turn trim pots (10 turns)				
Zero	CW = increasing Apply 4mA input current and adjust the Zero trimpot to desired				

Zero	CW = increasing
	Apply 4mA input current and adjust the Zero trimpot to desired
	minimum output current. Refer to the chart below.
	Factory settings are listed below.
Span	CW = increasing
	Apply 20mA input current and adjust the Span trimpot to desired
	maximum current output. Refer to the chart below.
	Factory settings are listed below.

CW = clockwise, CCW = counter clockwise

Default Current Outputs and Adjustment Ranges:

MODELS	IOUT MIN RANGE		IOUT MAX RANGE		DEFAULT	DEFAULT
P/N	MIN [mA]	MAX [mA]	MIN [mA]	MAX [mA]	MIN [+/-2 mA]	MAX [+/-2 mA]
IC-DR-11	0	25	155	220	0	200
IC-DR-12	6	29	116	171	20	160
IC-DR-14	0	5	38	63	0	50
IC-DR-18	0.14	43.46	143	172	40	160
IC-DR-20	0	12	69	105	0	100
IC-DR-24	0.14	43.46	143	172	0	160
IC-DR-25	0	25	155	220	20	200
AX130300	0	25	155	220	15	195



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: TD2300AX-07/29/15