Specifications / Installation



SmartRail

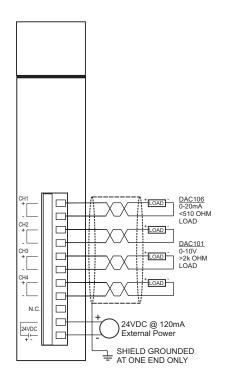
0-10V or 4-20mA Analog Output Modules

HE599DAC101 (voltage) & HE599DAC106 (current) 12-Bit Resolution

1 Specifications

Specifications			
	DAC101	DAC106	
Number of Channels	4		
Output Range(s)	0-10V	0-20mA, 4-20mA	
Absolute Maximum Output	DC ±15V	DC ±25mA	
Resolution	12-Bit (2.5mV)	12-bit (5uA, 4uA)	
Maximum Load	>2kΩ	<510Ω	
Accuracy	< +/-0.5%		
Isolation	500V (backplane)		
Conversion Time	1mS/ch		
Backplane Power Consumed	110mA @ 5V		
External Power Required	62mA @ 24V	120mA @ 24V	
Terminal Type	Screw Type, Removable 11-posn		
Storage Temp.	-25° to 70° Celsius		
Operating Temp.	-0° to 55° Celsius		
Relative Humidity	5 to 95% Non-condensing		
Dimensions WxHxD	20mm x 90mm x 60mm		
	0.79" x 3.54" x 2.36"		
Weight	64g (2.3 oz.)	70g (2.5oz.)	
CE & UL Compliance	CE, UL & C-UL		

2 Wiring – I/O



3 Configuration DATA

The SmartRail Analog Output modules have a variety of parameters configured on a channel-by-channel basis. These parameters are set using Cscape (9.1 or later), and are listed below:

Cscape Configuration Data – Selectable per channel			
Parameter	DAC101	DAC106	
Hold Last State	Hold Last State		
	Go to Minimum		
	Go to Mid-range		
	Go to Maximum		
Analog Output Range	0-10V	4-20mA	
		0-20mA	

3.1 Output Scaling

The SmartRail Analog Outputs scale digital values from 0-4000, to the analog value (0-10V, 0-20mA, or 4-20mA). For every digital count the output is incremented, the analog output value will increment an appropriate amount (2.5mV for 0-10V, 5uA for 0-20mA, 4uA for 4-20mA).

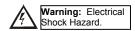
4 Installation / safety

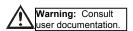
Warning: Remove power from the OCS controller and any peripheral equipment connected to this local system before adding or replacing this or any module.

- a. All applicable codes and standards should be followed in the installation of this product.
- Shielded, twisted-pair wiring should be used for best performance.
- c. Shields should be grounded at one end only, preferably at the end providing the best noise shunting.
- d. Use the following wire type or equivalent: Belden 8441.

For detailed installation and a <u>handy checklist</u> that covers panel box layout requirements and minimum clearances, refer to the hardware manual of the controller you are using.

When found on the product, the following symbols specify:





7 Technical Support

Technical Support at the following locations:

North America: Europe:

Tel: 317 916-4274 Tel: +353-21-4321266 Fax: 317 639-4279 Fax: +353-21-4321826

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