

SmartRail

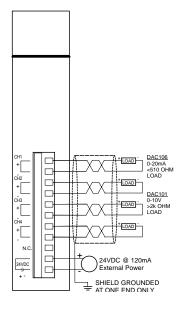
0-10V or 4-20mA Analog Output Modules

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

Specifications

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-	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			
Fotomod Downs Dominod	62mA @ 24V			
External Power Required	CLASS 2 POWER SUPPLY ONLY			
Terminal Type	M2 Screw Type, Removable 11-posn			
Optional Spring-Clamp Terminal Strip	HE599TRM011, 11 position			
Terminal Torque Rating	0.22 to 0.25 N-m 1.95 to 2.21 in-lb			
Accepted Wire Size	16-28AWG (use copper)			
Wire Stripping Length	7mm			
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.)			
CE & UL Compliance	CE, UL & C-UL Class I, Div 2 Groups A, B, C & D			

Wiring - I/O



DAC LED Status Indication		
LED	Meaning	
RUN	ON = Normal Operation	
	FLASH = I/O Error	
	OFF = No Power or I/O Error	

Configuration DATA

The SmartRail Analog Output modules have a variety of parameters configured on a channel-bychannel 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).

Installation / safety

This equipment is suitable for use in Class I, Division 2, Groups A, B, C and D or Non-hazardous locations only

WARNING - EXPLOSION HAZARD -

Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous

WARNING - EXPLOSION HAZARD -

Substitution of any component may impair suitability for Class I, Division 2

WARNING - POSSIBLE EQUIPMENT DAMAGE

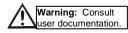
Remove power from the I/O Base and any peripheral equipment connected to this local system before adding or replacing this or any module.

- a. All applicable codes and standards should be followed in the installation of this product.
- b. 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
- d. Use the following wire type or equivalent: Belden 8441.

For detailed installation and a handy checklist 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:





Technical Support

Technical Support at the following locations:

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10/2/2018 Page 1 of 1