MAN0936-03-EN Specifications / Installation



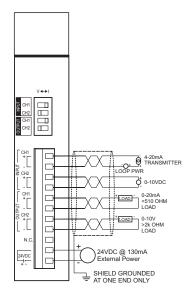
SmartRail

0-10V, 4-20mA Analog Input/Output Module HE599MIX116 12-Bit Resolution

1 Specifications

Spe	Specifications		
INPUTS			
Number of Channels	2		
Input Ranges	4-20mA, 0-20mA, 0-5V, 0-10V		
Absolute Max. Inputs	±15V, ±25mA		
Resolution	12-Bit (4uA,5uA,1.25mV, 2.5mV		
Input Impedance	1MΩ (voltage), 250Ω (current)		
Accuracy	< ±0.5%		
Conversion Time	1mS/ch		
OUTPUTS			
Number of Channels	2		
Output Ranges	0-10V, 4-20mA, 0-20mA		
Absolute Max. Outputs	±15V, ±25mA		
Resolution	12-Bit (2.5mV, 4uA, 5uA)		
Maximum Load	>2kΩ (voltage), <510Ω (current)		
Accuracy	< ±0.5%		
Conversion Time	1mS/ch		
General Specifications			
Isolation	Photocoupler (Input/Power)		
Backplane Power Consumed	50mA @ 5V		
External Power Required	62mA @ 24V (+/-10%)		
·	CLASS 2 POWER SUPPLY ONLY		
Terminal Type	M2 Screw Type, Removable 11-posn		
Optional Spring Clamp Terminal Strip	HE599TRM011, 11-posn		
Terminal Tergue Pating	0.22 to 0.25 N-m		
Terminal Torque Rating	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	73g (2.6 oz.)		
CE & UL Compliance	CE, UL & C-UL Class I, Div 2 Groups A, B, C & D		

2 Wiring – I/O



MIX116 LED Status Indication		
LED 1	LED 2	Meaning (same for both LEDs)
IN OK	OUT OK	ON = Normal Operation
		FLASH = I/O Error
		OFF = No Power or I/O Error

3 Configuration DATA

The SmartRail MIX116 features a dip switch on the front of the unit for selecting voltage (0-10V) or current (4-20mA or 0-20mA) on a per channel basis. In addition to the physical dip switch, Cscape (9.1 or later) must be used for software configuration as well. The following parameters are configurable in Cscape for the MIX116:

Cscape Configuration Data – Selectable per channel		
Parameter	Selections	
Input/Output Range	4-20mA	
	0-20mA	
	0-5V	
	0-10V	
Hold Last State (Outputs)	Hold Last State	
	Go to Minimum	
	Go to Mid-range	
	Go to Maximum	

4 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 non-hazardous

WARNING - EXPLOSION HAZARD -

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

WARNING - POSSIBLE EQUIPMENT DAMAGE

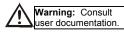
Remove power from the I/O Base and any peripheral equipment connected to this local system before adding or replacing this or any module.

- 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 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:





5 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

Web: http://www.heapg.com Web: http://www.horner-apg.com Email: tech.support@horner-apg.com

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