AN0931-01-EN Specifications / Installation



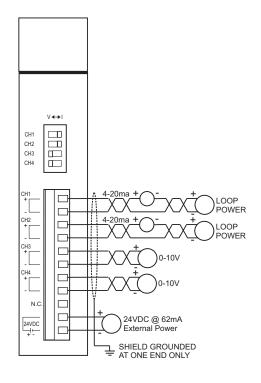
# SmartRail 0-10V, 4-20mA Analog Input Module HE599ADC170

## 12-Bit Resolution

#### 1 Specifications

Specifications		
	ADC170	
Number of Channels	4	
Input Ranges	0-10V, 4-20mA, 0-20mA	
Absolute Max. Inputs	+/-15V, +/-30mA	
Resolution	12-Bit (2.5mV, 4uA, 5uA)	
Input Impedance	1MΩ (voltage), 250Ω (current)	
Accuracy	< +/-0.5%	
Isolation	Photocoupler (Input/Power)	
Conversion Time	1.5mS/ch	
Backplane Power Consumed	50mA @ 5V	
External Power Required	62mA @ 24V (+/-10%)	
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	67g (2.4 oz.)	
CE & UL Compliance	CE, UL & C-UL	

#### 2 Wiring – I/O



ADC170 LED Status Indication		
LED	Meaning	
RUN	ON = Normal Operation	
	FLASH = I/O Error	
	OFF = No Power or I/O Error	

#### 3 Configuration DATA

The SmartRail ADC170 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 ADC170:

Cscape Configuration Data - Selectable per channel	
Parameter	Selections
Channel Enable	Enable
	Disable
Data Type	4-20mA
	0-20mA
	0-10V
Data Range	0-4000
	-2000 to +2000
	0 to 1000 (for 4-20mA type)
	0 to 1000 (0-20mA or 0-10V type)

#### 4 Installation / safety

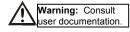
**Warning:** Remove power from the OCS controller and any peripheral equipment connected to this local system before adding or replacing this or any module.

- a. All applicable codes and standards should be followed in the installation of this product.
- 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:





### 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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