MAN0938-02-EN Specifications / Installation



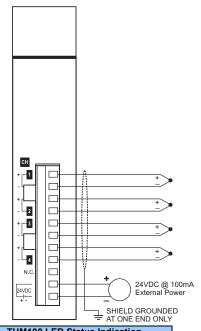
SmartRail Thermocouple Input Module (Type J, K, T, R)

HE599THM100 0.1°C Resolution, typical

1 Specifications

Specifications					
·			THM100		
Number of Channels			4		
Types Supported		ted	J, K, T, R		
Temperature		J	-200 to +1200 °C		
		K	-200 to +1300 °C		
Range		T R	-200 to +400 °C		
			0 to +1700 °C		
Resolution		J,K,T	0.1°C		
			0.5°C		
	Full-scale		±0.2% full scale @ 25°C		
Accuracy	Cold-Junction		±1°C		
	Temp. Coefficient		±100ppm/°C CJ (0-55°C)		
Warm-up Time		ne	15 minutes		
Input Impedance		ice	>10MΩ		
Isolation			500V (backplane)		
Dielectric Withstand			400Vac for 1 min (ch-ch)		
Conversion Time			50mS/ch		
Backplane Power Consumed		onsumed	100mA @ 5V		
External Power Required			100mA @ 24V (+/-10%)		
Standard Terminal Type			Screw Type, Removable 11-posn		
Optional S	Spring-cla	mp Plug	HE599TRM011		
Storage Temp.			-25° to 70° Celsius		
Operating Temp.			-0° to 55° Celsius		
Relative Humidity			5 to 95% Non-condensing		
Dimensions WxHxD		H^D	20mm x 90mm x 60mm		
		ו ואט	0.79" x 3.54" x 2.36"		
Weight			63g (2.2 oz.)		
CE & UL Compliance			CE, UL & C-UL		

2 Wiring – I/O



THM100 LED Status Indication			
LED	Meaning		
RUN	ON = Normal Operation		
	FLASH = I/O Error		
	OFF = No Power or I/O Error		
ALARM	RM OFF = Normal Operation		
	FLASH = Open Circuit Detected		

3 Reported Data & Configuration Data

Data is reported to the OCS in signed integer format, with a single implied decimal place. For a temperature of +762.4°C, with a data range configured for °C, the reported data value is 7624 decimal. For a temperature of -12.1°F, with a data range configured for °F, the reported data value is -121 decimal.

The SmartRail THM100 is configured using Cscape (9.1 or later). The following parameters are configurable for the THM100:

Cscape Configuration Data - Selectable per channel			
Parameter	Selections		
Channel Enable	Enable		
Charmer Enable	Disable		
	К		
Thermeequals Type	J		
Thermocouple Type	Т		
	R		
Data Range	°C		
Data Range	°F		

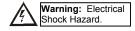
4 Installation / safety

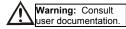
Warning: Remove power from the OCS controller and any peripheral equipment connected to this local system before adding or replacing this or any module.

- a. All applicable codes and standards should be followed in the installation of this product.
- b. Shielded, thermocouple extension wiring of the proper type should be used for best performance.
- c. Shields should be terminated at one end only, at the end providing the best noise shunting.

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:

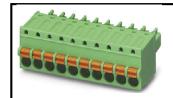
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Prefer Spring-clamps?

Optional Spring-clamp style plugs are available as economical wiring accessories See specification table for part number(s). Representative 10-position plug shown.

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