

PRODUCT INFO SHEET

Nanmac Corporation

Quality • Performance • Solutions

Rail Mount Transmitter Isolated F11-50RM Series

The F11-50RM is a universal, isolated two-wire transmitter. Used for temperature and other measurement applications, it combines competitive functionality and simple configuration. Useful error correction functions improve the accuracy. This device also has these special ratings: FM and ATEX approved. All user specified information is programmed by Nanmac. Accepts RTDs, thermocouples, mV, and Ω .

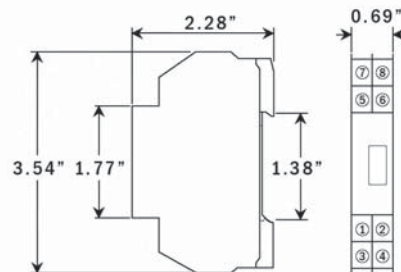
Special Ratings:

- For FM approved device, add suffix "FM" to the part number
- For ATEX approved device, add suffix "ATEX" to the part number

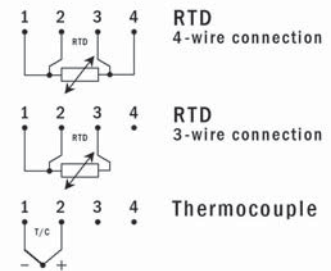
User Specified Information (programmed by NANMAC)

- 1) Input Sensor Type
- 2) Cold Junction (thermocouple only, default is 32°F / 0°C)
- 3) Temperature Scale °F or °C
- 4) Temperature Range (full sensor range as default)
- 5) Sensor Break Detection (upscale or downscale - upscale is default)

Dimensions



Input Connections



Temperature Ranges and Specifications

Input RTD 3-,4-wire connection	Pt100 (a=0.00385)	-200 to 1000°C / -328 to 1832°F
	Pt1000 (a=0.00385)	-200 to 200°C / -328 to 392°F
	PtX10 $\leq X \leq 1000$ (a=0.00385)	Upper Range Depending on X-Value
	Pt100 (a=0.003902)	-200 to 1000°C / -328 to 1832°F
	Pt100 (a=0.003916)	-200 to 1000°C / -328 to 1832°F
	Ni100 (1)	-60 to 250°C / -76 to 482°F
Ni1000 (1)	-10 to 150°C / 14 to 302°F	
Input Potentiometer Resistance	3-,4-wire connection, 0 - 2000 Ω	
Input Thermocouples	Types:	B, C, E, J, K, N, R, S, T
Input mV	-10 to 500 mV	
Sensor Failure	User Definable Output	
Adjustments - Zero	Any Value Within Range Limits	
Minimum Spans	100° either F or C	
Output	4-20 mA, Temperature Linear	
Operating Temperature	-20 to 70°C / -4 to 158°F	
Galvanic Isolation	1500 VAC, 1 min.	
Power Supply	6.5 to 36 VDC 8 to 30 VDC	
Intrinsic Satety	ATEX: II (1) G [Ex ia] IIC (Mounting in safe area) FM: Class I-III, Div. 1, Gr. A-G	
Typical Accuracy	$\pm 0.1\%$ of Temperature Span	
Connection Head	Rail acc. to DIN EN50022, 35mm	

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Foremost in Temperature Measurement™
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