Head Mount Transmitter

Isolated

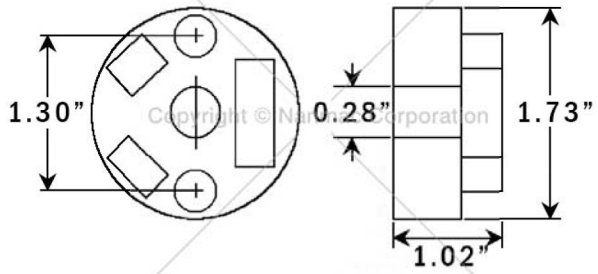
F11-50 Series

The F11-50 is a universal, isolated two-wire transmitter. Used for temperature and other measurement applications, it combines competitive functionally and simple configuration. Useful error correction functions improve the accuracy. This device is also available with these special ratings: FM, ATEX, and HART communication. Contact us for your specific requirement. All user specified information is programmed by Nanmac.

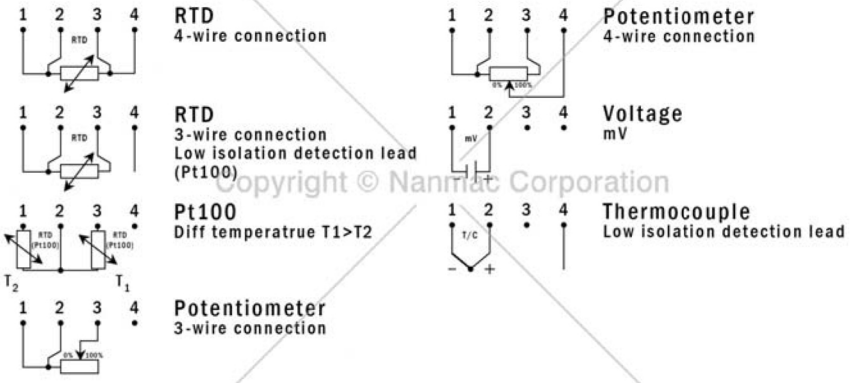
NOTES:

- Fully universal, linearized and high-isolation
- Accepts RTDs, thermocouples, mV, and Ω
- Sensor error and system (sensor/transmitter) error correction for highest total accuracy.
- Full access to all features while in operation
- NAMUR compliant
- Consistent sensor break function
- Simplified loop check-up with calibration output.
- Low sensor isolation detection

Dimensions



Input Connections



Special Ratings:

- For FM approved device, add suffix “FM” to the part number.
- For ATEX approved device, add suffix “ATEX” to the part number.
- For HART compatible communications device, add suffix “HART” to the part number.
- For FM or ATEX plus HART communication add suffix “FM” or “ATEX” plus “HART” to the part number.
  Example: F11-50-FM-HART, or F11-50-ATEX-HART

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)

Temperature Ranges and Specifications		
Input RTD 3-,4-wire connection	Pt100 (a=0.00385) Pt1000 (a=0.00385) PtX10 ≤X≤ 1000 (a=0.00385) Pt100 (a=0.003902) Pt100 (a=0.003916) Ni100 (1) Ni1000 (1)	-200 to 1000°C / -328 to 1832°F -200 to 200°C / -328 to 392°F Upper Range Depending on X-Value -200 to 1000°C / -328 to 1832°F -200 to 1000°C / -328 to 1832°F -60 to 250°C / -76 to 482°F -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 / 20-4 mA, Temperature Linear	
Operating Temperature	-40 to 85°C / -40 to 185°F	
Galvanic Isolation	1500 VAC, 1 min.	
Power Supply	F11-50: 6.5 to 36 VDC F11-50-FM: 8 to 30 VDC F11-50-ATEX: 8 to 30 VDC	
Intrinsic Satety	ATEX: II (1) G [EEx ia] IIC T4-T6 FM: Class I-III, Div. 1, Gr. A-G	
Typical Accuracy	±0.1% of Temperature Span	
Connection Head	DIN B or Larger	

PO Box 6640
1657 Washington St., Bldg. 3
Holliston MA 01746
www.Nanmac.com
engineering@nanmac.com

Foremost in Temperature Measurement™
NANMAC

US & Canada:1.800.786.4669
International: 1.508.872.4811
Fax: 1.508.879.5450
info@nanmac.com