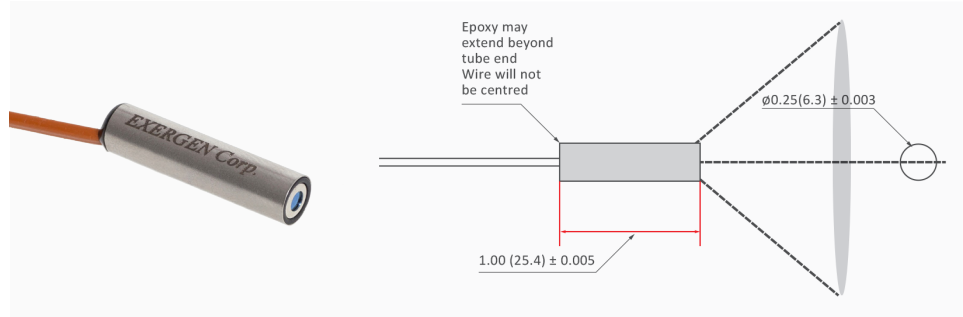


Micro IRt/c Base Model

Product Overview

The Micro IRt/c features:

- Infrared Thermocouple IRt/c
- Non-contact
- Self-powered
- Intrinsically Safe
- Repeatability 0.02°F (0.01°C)
- Interchangeability ±1%
- Resolution approx. 0.0003°C
- Small Size



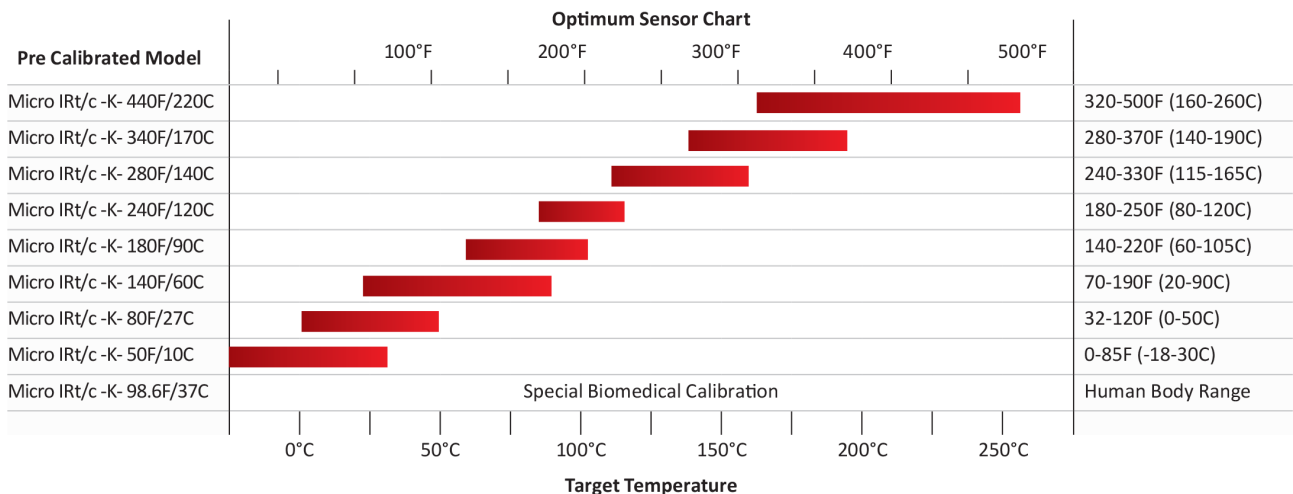
Technical Data

Ambient Temp Range	-40 to 185°F (-40 to 85°C)
Sensing Range - All Models	0 to 975°F (-18 to 524°C) with linearization at readout
Field of View	approximately 1:2 (110°)
Minimum Spot Size	.1" (3mm)
Spectral Response	5.5 to 20 μm
Output	K Type thermocouple
Impedance	17-45 Kohms, varies depending on temperature range
Emissivity (e)	.90
Response Time	50 Millesecond time constant (typical)

Accuracy (Interchangeability)	1% to factory calibration conditions
Dimensions	0.25" (6.3mm) Dia. x 1.0" (25.4mm)
Housing	Stainless Steel
Cable Assembly	3 feet of unshielded, duplex insulated, type K, 24 AWG, PFA jacket rated to 500°F (260°C) (Shielded cable available upon request)
Humidity	Non-Condensing
Power Requirements	None, self powered signal output
Sealed	Hermetically sealed, exceeds NEMA 4X, IP67
Weight	Approximately 1oz. (30 grams)
Input Device Compatibility	It is recommended to use input devices with less than 1 nA of leakage current to minimize offsets, and sensor break detection should be set to 40 kohm maximum.

Calibration

Ordering information **Micro IRt/c - K - (Pre-Calibrated Temperature Range).**



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