

# Infrared Temperature Sensors

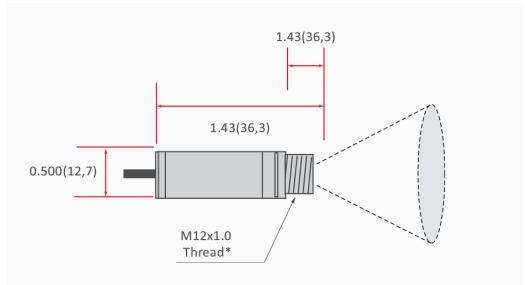
## DATASHEET

### IRT/C.1X

#### Product Overview

The IRT/c.1X features:

- Infrared Thermocouple IRT/c
- Non-contact
- Self-powered
- Intrinsically Safe
- Repeatability 0.02°F (0.01°C)
- Interchangeability ±1%
- Resolution approx. 0.0001°C
- Small Size



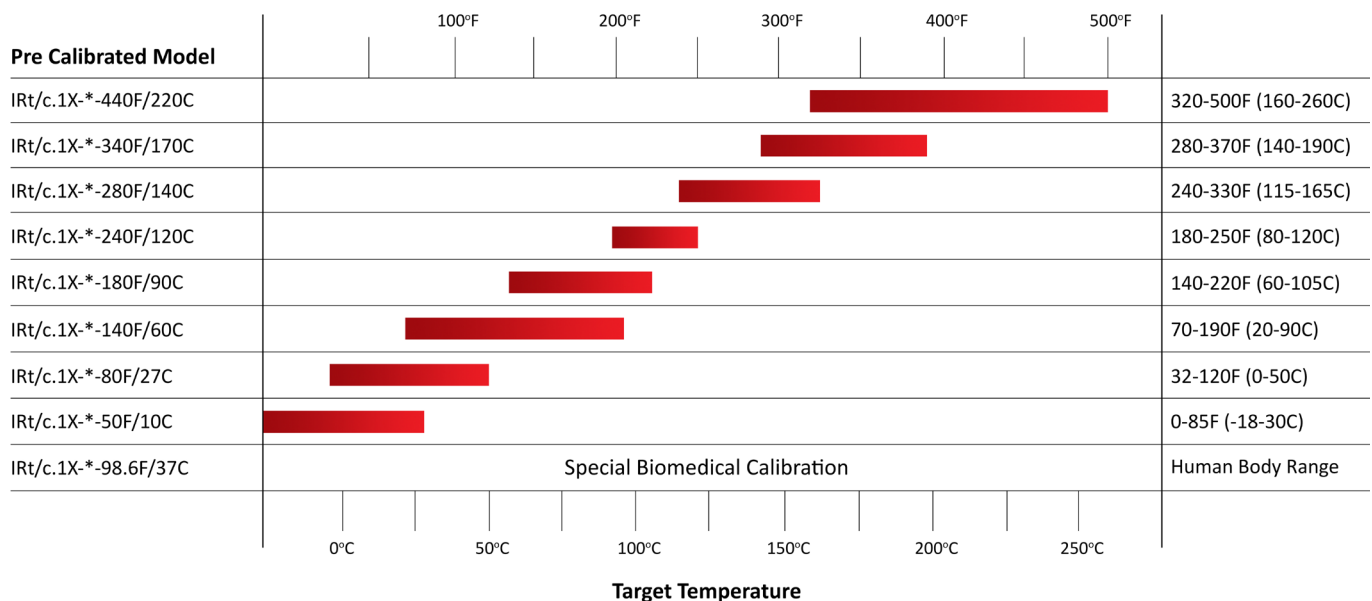
#### Technical Data

Sensing Range	-50 to 1200°F (-45 to 650°C)	Response Time	100 Milliseconds
Ambient Temperature Range	0 to 212°F (-18 to 100°C)	Dimensions	1.43" x .50" Dia. (36 x 12.7mm)
Optimum Range Selections	Eight models per t/c type (see Temperature Selection Chart)	Housing	Stainless steel, hermetically sealed, exceeds NEMA 4,4X; IP65, 67, cable shield grounded to housing and electrically isolated from signal
Field of View	approximately 1:1 (60°)	Cable	Twisted shielded pair of base thermocouple material (J,K,E,T), 3ft (.9m) std length, Teflon sheathed, rated to 392°F (200°C) continuous service
Minimum Spot Size	.3" (8mm)	Weight	1.4oz. (40 grams) with cable
Spectral Response	6.5 to 14μm		
Output Impedance	3 Kohms approx		

#### Calibration

Ordering information **IRT/c.1X-\*** (Thermocouple Type) - (Precalibrated Temperature Range).  
Thermocouple type J,K,E,T over temperature range specified.

Temperature Selection Chart



Specifications subject to change without notice