

# Infrared Temperature Sensors

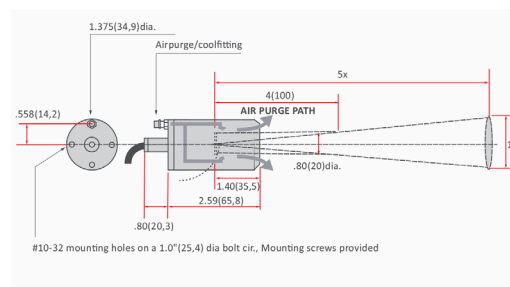
## DATASHEET

### IRT/C.5

#### Product Overview

The IRT/c.5 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

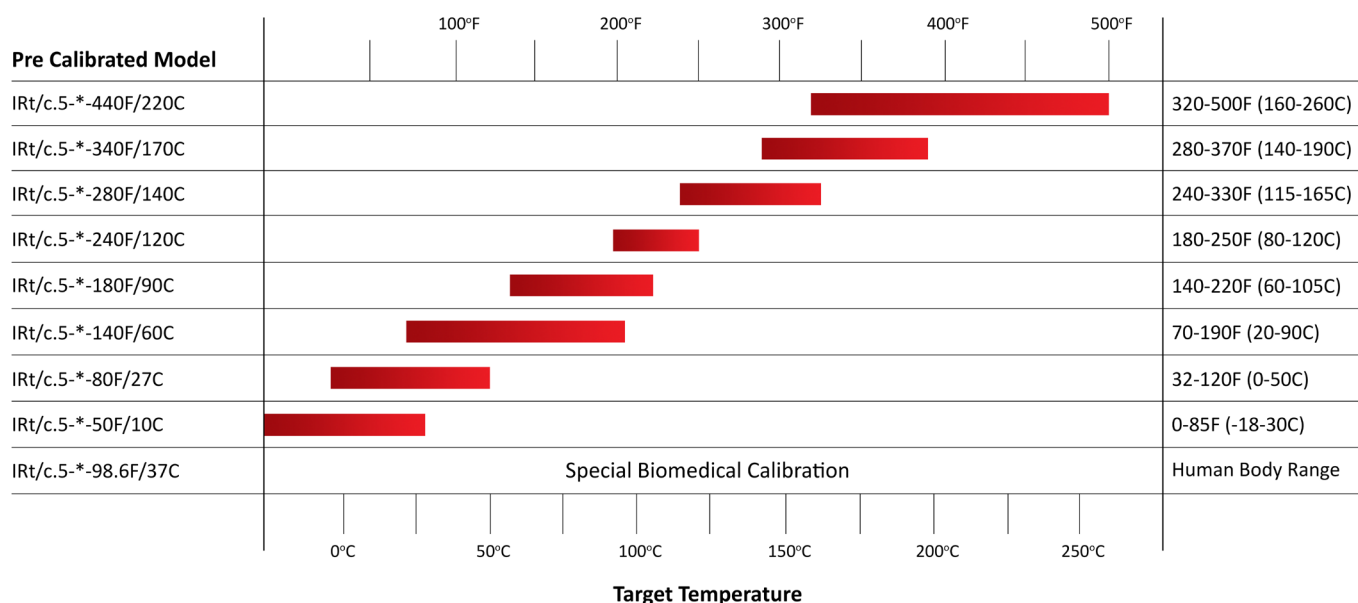
Sensing Range	-50 to 1200°F (-45 to 650°C)
Ambient Temperature Range	0 to 400°F (-18 to 200°C)
Optimum Range Selections	Eight models per t/c type (see Temperature Selection Chart)
Field of View	approximately 5:1 (11°)
Minimum Spot Size	.8" (20mm)
Spectral Response	6.5 to 14μm
Output Impedance	4 to 8 Kohms approx
Response Time	100 Milliseconds

Dimensions	3.4" x 1.375" Dia. (86 x 35mm)
Housing	Stainless steel, hermetically sealed, exceeds NEMA 4,4X; IP65, 67, cable shield grounded to housing and electrically isolated from signal
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
Weight	6.5oz. (184 grams) with cable
Air Purge	Built-in; designed for severe paint or ink environment; 3' (0.9 m) of tubing provided

#### Calibration

Ordering information **IRT/c.5-\*** (Thermocouple Type) - (Pre-calibrated Temperature Range). Thermocouple type J,K,E,T over temperature range specified.

Temperature Selection Chart



Specifications subject to change without notice