

Infrared Temperature Sensors

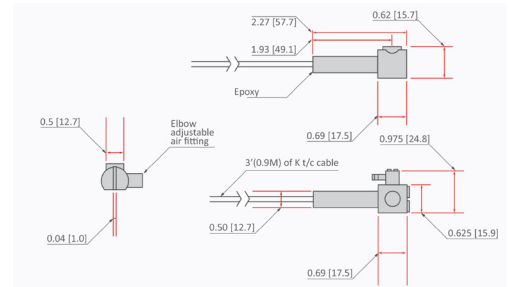
DATASHEET

IRT/C.3SV

Product Overview

The IRT/c.3SV 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



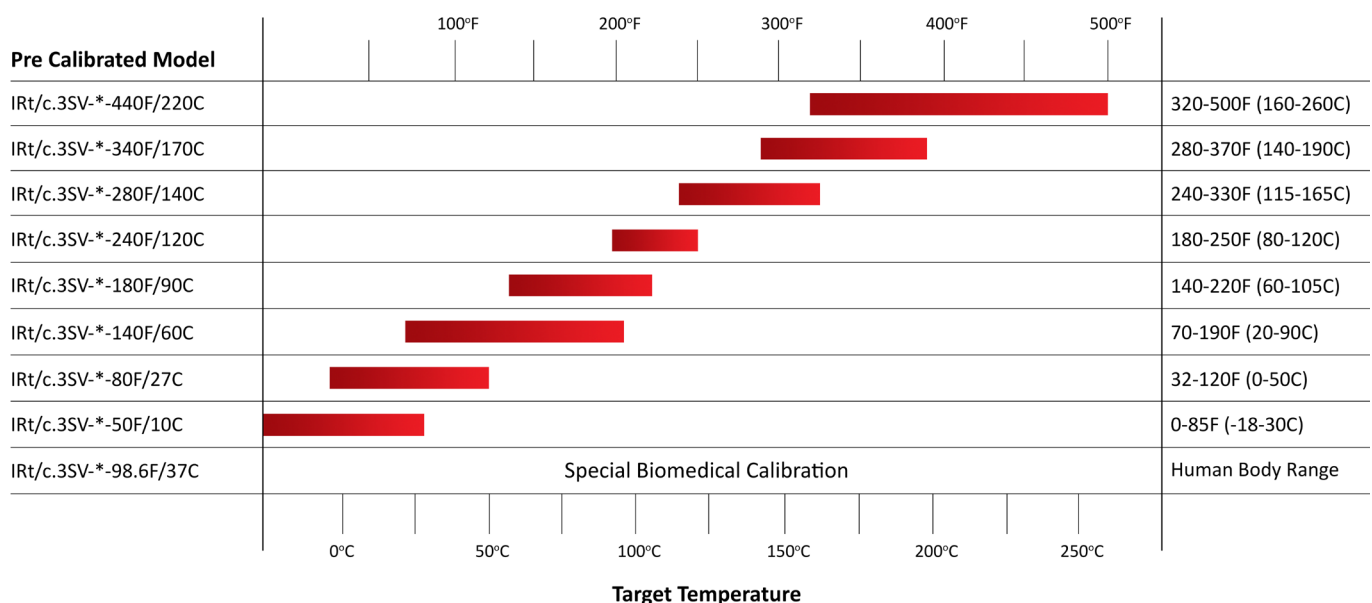
Technical Data

Sensing Range	-50 to 1200°F (-45 to 650°C)	Dimensions	See diagram above
Ambient Temperature Range	0 to 248°F (-18 to 120°C)	Housing	Stainless steel, hermetically sealed, exceeds NEMA 4,4X; IP65, 67, cable shield grounded to housing and electrically isolated from signal
Optimum Range Selections	Eight models per t/c type (see Temperature Selection Chart)	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
Field of View	approximately 3:1 (17°)	Weight	1.6oz. (44 grams) with cable
Minimum Spot Size	.2" (5mm)	Air Purge	Built-in; designed for severe paint or ink environment; 3' (0.9 m) of tubing provided
Spectral Response	6.5 to 14µm		
Output Impedance	4 to 8 Kohms approx		
Response Time	100 Milliseconds		

Calibration

Ordering information **IRT/c.3SV-*** (Thermocouple Type) - (Precalibrated Temperature Range). Thermocouple type J,K,E,T over temperature range specified.

Temperature Selection Chart



Specifications subject to change without notice