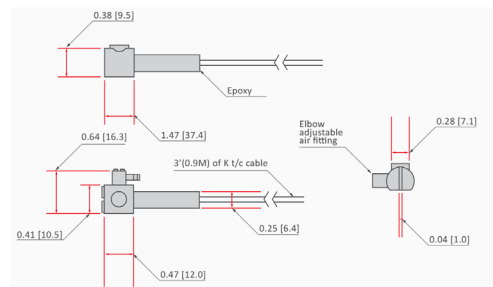## IRT/C.3SV

Product Overview

The IRt/c.3SV features:

- Infrared Thermocouple IRt/c
- Non-contact
- Self-powered
- Intrinsically Safe
- Repeatability 0.02ºF (0.01ºC)
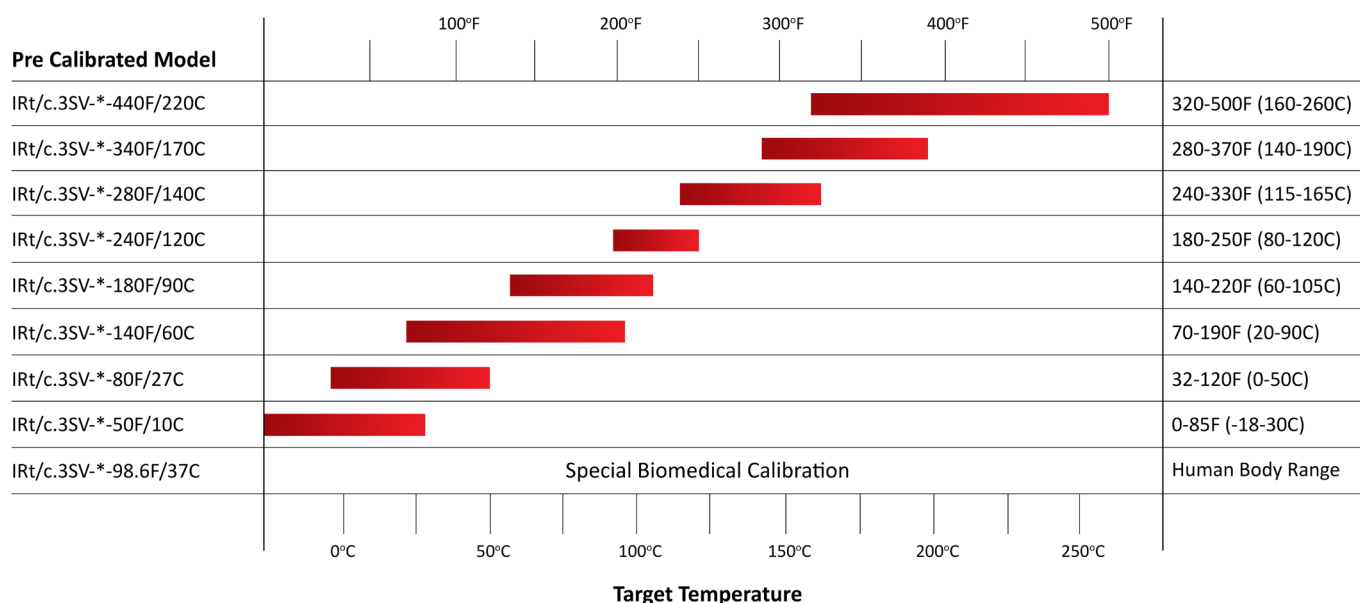- Interchangeability ±1%
- Resolution approx. 0.0001ºC
- Small Size

Technical Data

Sensing Range	-50 to 1200ºF (-45 to 650ºC)
Ambient Temperature Range	0 to 248ºF (-18 to 120ºC)
Optimum Range Selections	Eight models per t/c type (see Temperature Selection Chart)
Field of View	approximately 3:1 (17º)
Minimum Spot Size	.2" (5mm)
Spectral Response	6.5 to 14μm
Output Impedance	4 to 8 Kohms approx
Response Time	100 Milliseconds

Dimensions	See diagram above
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 lenght, Telfon sheated, reated to 392ºF (200ºC) continuous service
Weight	1.6oz. (44 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.3SV-*** (Thermocouple Type) - (Precalibrated Temperature Range).
Thermocouple type J,K,E,T over temperature range specified.

Temperature Selection Chart

Pre Calibrated Model		
IRt/c.3SV-*-440F/220C		320-500F (160-260C)
IRt/c.3SV-*-340F/170C		280-370F (140-190C)
IRt/c.3SV-*-280F/140C		240-330F (115-165C)
IRt/c.3SV-*-240F/120C		180-250F (80-120C)
IRt/c.3SV-*-180F/90C		140-220F (60-105C)
IRt/c.3SV-*-140F/60C		70-190F (20-90C)
IRt/c.3SV-*-80F/27C		32-120F (0-50C)
IRt/c.3SV-*-50F/10C		0-85F (-18-30C)
IRt/c.3SV-*-98.6F/37C	Special Biomedical Calibration	Human Body Range

Target Temperature

Specifications subject to change without notice

DS-612-EN-V0