

Infrared Temperature Sensors

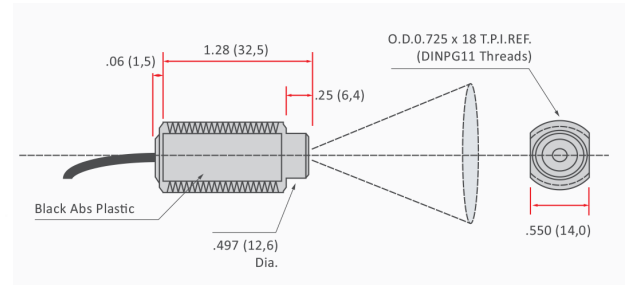
DATASHEET

IRT/C.03

Product Overview

The IRT/c.03 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

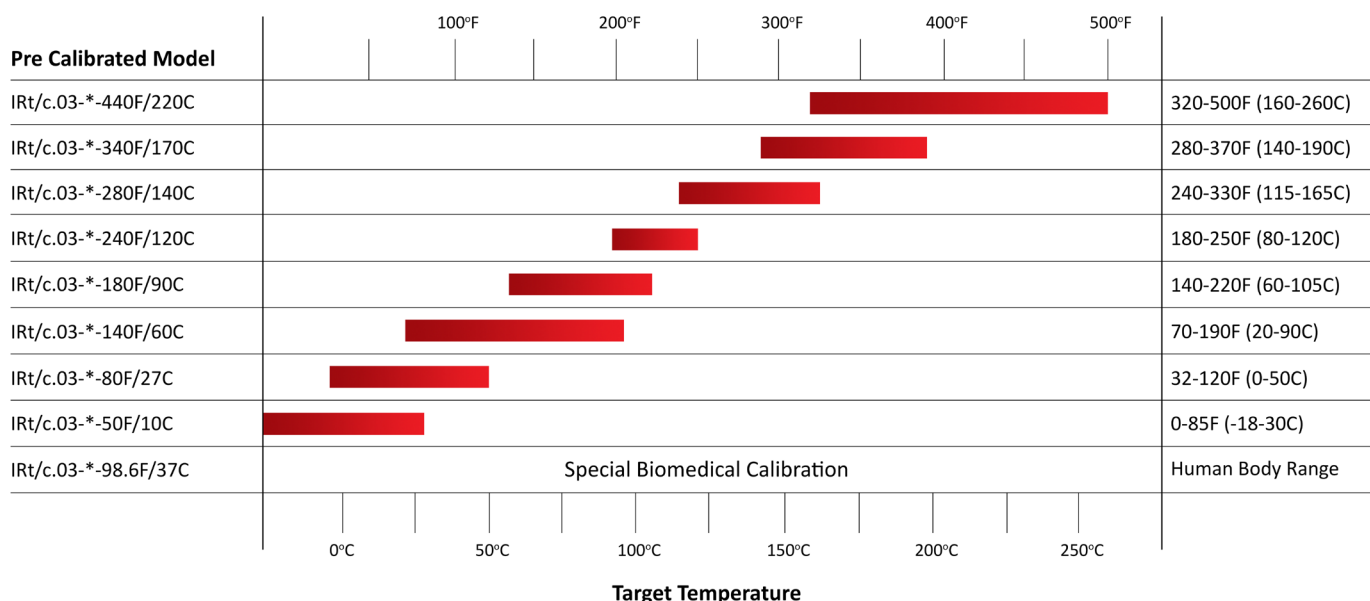
Sensing Range	-50 to 550°F (-45 to 290°C)
Ambient Temperature Range	0 to 160°F (-18 to 70°C)
Optimum Range Selections	Eight models per t/c type (see Temperature Selection Chart)
Field of View	approximately 3:1 (17°)
Minimum Spot Size	.25" (6mm)
Spectral Response	6.5 to 14μm
Output Impedance	4 to 8 Kohms approx

Response Time	100 Milliseconds
Dimensions	1.28" x .71" Dia. (32.5 x 20mm)
Housing	High strength ABS, hermetically sealed, exceeds NEMA 4,4X; IP65, 67, intrinsically safe. Two locknuts supplied
Cable	Thermocouple extension grade, PVC jacket, unshielded
Weight	1.4oz. (40 grams) with cable

Calibration

Ordering information **IRT/c.03-*** (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