Infrared Temperature Sensors
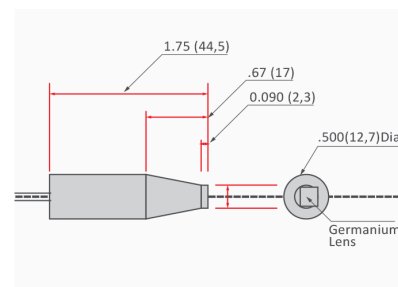**DATASHEET**

IRT/C.2G

Product Overview

The IRt/c.2G features:

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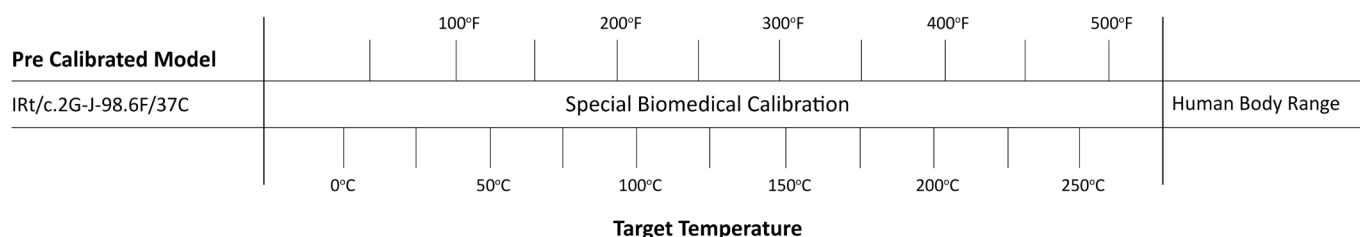• Small Size

Technical Data

Sensing Range	-50 to 1200ºF (-45 to 650ºC)	Response Time	100 Milliseconds
Ambient Temperature Range	0 to 160ºF (-10 to 70ºC)	Dimensions	1.75" x 0.50" Dia. (44 x 12.7mm)
Optimum Range Selection	32 to 122ºF (0 to 50 ºC) (Human body range)	Housing	Stainless steal, hermetically sealed, exceeds NEMA 4,4X; IP65, 67, intrinsically safe, cable shield grounded to housing and electrically isolated from signal
Field of View	approximately 1:1 (60º)		
Minimum Spot Size	.16" (4mm)	Cable	Twisted shielded pair of base thermocouple material (J), 3ft (.9m) std length, Teflon sheathed, rated to 392ºF (200ºC) continuous service
Spectral Response	2 to 20µm		
Output Impedance	10 Kohms approx	Weight	1.4oz. (40 grams) with cable

Calibration

Ordering information **IRt/c.2G-J-98.6F/37C**

Temperature Selection Chart

Pre Calibrated Model	100ºF	200ºF	300ºF	400ºF	500ºF	
IRt/c.2G-J-98.6F/37C		Special Biomedical Calibration				Human Body Range
	0ºC 50ºC	100ºC	150ºC	200ºC	250ºC	

Target Temperature

For other temperature ranges please contact Exergen Global

Specifications subject to change without notice