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Infrared Temperature Sensors

DATASHEET

IRT/C.01

Product Overview

The IRt/c.01 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 1:1 (60°)		
Minimum Spot Size	.3″ (8mm)		
Spectral Response	6.5 to 14µm		
Output Impedance	3 Kohms approx		

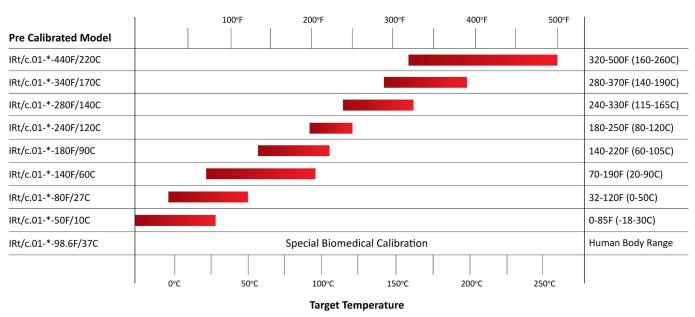
	.06 (1,5)	O.D.0.725 x 18 T.P.I.REF. (DINPG11 Threads)
)	.06 (1,5) Black Abs Plastic .497 (12,6) Dia.	.550 (14,0)

Response Time	100 Milliseconds
Dimensions	1.28" x .71" Dia. (32.5 x 20mm)
Housing	High strenght 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.01-*** (Thermocouple Type) - (Precalibrated Temperature Range). Thermocouple type J,K,E,T over temperature range specified.

Temperature Selection Chart



Specifications subject to change without notice

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