EXERGEN
CORPORATION

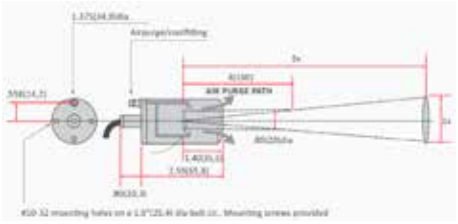
Infrared Temperature Sensors | DATASHEET

IRT/C.5

Product Overview

The IRt/c.5 features:

- Infrared Thermocouple IRt/c
- Non-contact
- Self-powered
- Intrinsically Safe
- Repeatability 0,01°C (0.02°F)
- Interchangeability ±1%
- Resolution approx. 0,0001°C (0.0002°F)
- Small Size



Technical Data

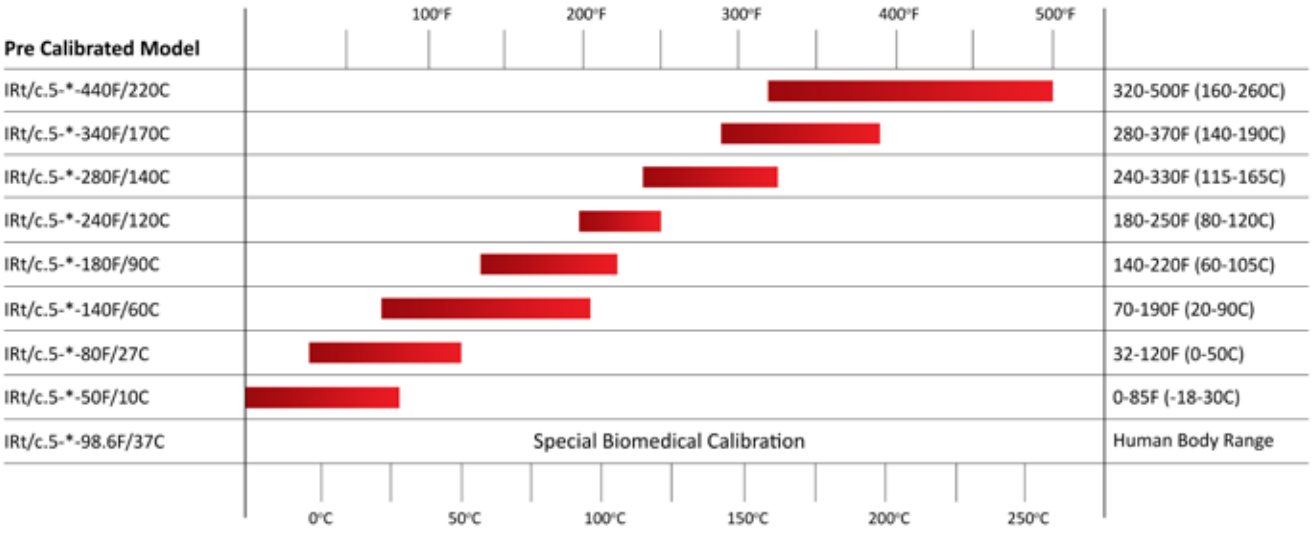
Sensing Range	-45 to 650°C (-50 to 1200°F)
Ambient Temperature Range	-18 to 200°C (0 to 400°F)
Optimum Range Selections	Eight models per t/c type (see Temperature Selection Chart)
Field of View	approximately 11° (5:1)
Minimum Spot Size	20 mm (.8")
Spectral Response	6,5 to 14 μm
Output Impedance	4 to 8 Kohms approx
Response Time	100 Milliseconds

Dimensions	86 x 35 mm Dia. (3.4" x 1.375")
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), 0,9 m (3 ft) std length, Teflon sheathed, rated to 200°C (392°F) continuous service
Air Purge	Built-in; designed for severe paint or ink environment; 0,9 m (3") of tubing provided
Weight	184g (6.5oz.) with cable

Calibration

Ordering information IRt/c.5-* (Thermocouple Type) - (Precalibrated Temperature Range). Thermocouple type J,K,E,T over temperature range specified.

Temperature Selection Chart



Target Temperature

Exergen Corporation Office:

USA
400 Pleasant Street
Watertown, MA 02472
Tel: +1 617 923 9900 press 4 for industrial
Fax: +1 617 923 9911

Exergen Industrial International/OEM Sales Office:

Clever IR
The Netherlands
Pastoor Clercxstraat 26
5465 RH Veghel
+31 (0)413 376 599

industrial@exergen.com
www.exergen.com