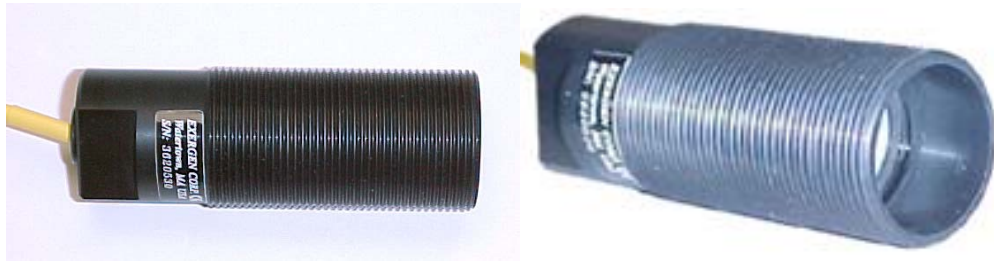


IRt/c.07™
Infrared Temperature Sensor

Exergen
Corporation



Specifications		
Recommended Sensing Range	P/N	Model
	115021	IRt/c.07-K-80F/27C
	115020	IRt/c.07-K-98.6F/37C
	115022	IRt/c.07-K-140F/60C
	115023	IRt/c.07-K-180F/90C
	115024	IRt/c.07-K-240F/120C
	115025	IRt/c.07-K-280F/140C
	115026	IRt/c.07-K-340F/170C
	115027	IRt/c.07-K-440F/220C
	Recommended Temp Range	
	32-120 °F (0-50 °C)	
	70-190 °F (20-90 °C)	
	140-220 °F (60-105 °C)	
	180-250 °F (80-120 °C)	
	240-330 °F (115-165 °C)	
	280-370 °F (140-190 °C)	
	320-500 °F (160-260 °C)	
Ambient Temperature Range	-4 °F - 158 °F (-20 °C - 70 °C) (internal case temperature)	
Storage Temperature Range	-4 °F - 158 °F (-20 °C - 70 °C)	
Field of View of Sensing Element	7:1 (distance: spot) approximately 8° inclusive	
Minimum Spot size	0.75" (19 mm)	
Dominant Spectral Response	6.5 to 14 μm	
Output Sensor	K type thermocouple	
Impedance	3.5 – 14 Kohms, varies depending on temperature range	
Emissivity (ε)	.90	
Measurement Type	Thermopile	
Resolution	Approximately 0.0003 °C, Johnson Noise	
Update Time	Instantaneous	
Time Constant	100 milliseconds typically	
Response Time (95% of step change)	300 milliseconds	
Accuracy (Interchangeability)	1% at factory calibration conditions	
Dimensions	3.25" x 1.18" Dia. (82.5 x 29.97 mm Dia.), M30 x 1.5 thread	
Housing	ABS Black Plastic	
Cable Assembly	3 feet of unshielded, duplex insulated, type K, 24 AWG, PFA jacket rated to 392 °F (200 °C) (Shielded cable available upon request)	
Humidity	Non-Condensing	
Power Requirements	None	
Sealed	Hermetically, exceeds NEMA 4X, IP67	
Weight	Approximately 2.3 oz (65 grams)	