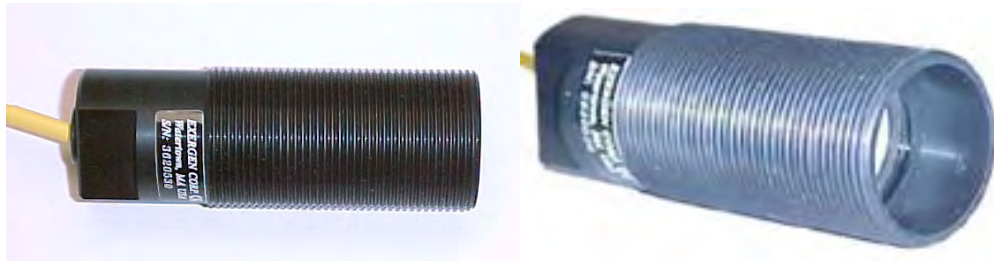


IRt/c.07™
Infrared Temperature Sensor

Exergen
Corporation



Specifications			
Recommended Sensing Range	P/N	Model	
		Recommended Temp Range	
	115021	IRt/c.07-K-80F/27C	32-120 °F (0-50 °C)
	115020	IRt/c.07-K-98.6F/37C	
	115022	IRt/c.07-K-140F/60C	70-190 °F (20-90 °C)
	115023	IRt/c.07-K-180F/90C	140-220 °F (60-105 °C)
	115024	IRt/c.07-K-240F/120C	180-250 °F (80-120 °C)
	115025	IRt/c.07-K-280F/140C	240-330 °F (115-165 °C)
115026	IRt/c.07-K-340F/170C	280-370 °F (140-190 °C)	
115027	IRt/c.07-K-440F/220C	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)		