

## Self Powered/Precalibrated IRt/c Selection Matrix



Model	IRt/c	IRt/c.1X	IRt/c.2G	IRt/c.3X	IRt/c.3SV	IRt/c.01	IRt/c.03	IRt/c.07	IRt/c.5	IRt/c.10	uIRt/c	uIRt/c.SV	uIRt/c.4	uIRt/c.4SV	IRt/c.01Z
<b>Material</b>	stainless steel					ABS plastic			stainless steel						ABS
<b>Output</b>	type J or K t/c						K t/c		type J or K t/c		K t/c				
<b>Temperature Range</b>	-50 to 1200 °F (-46 to 649 °C)				-50 to 550 °F (-46 to 288 °C)			-50 to 1200 °F (-46 to 649 °C)						-50 to 550 °F (-46 to 288 °C)	
<b>Ambient Temperature Range</b>	0-212 °F (-18 to 100 °C)		0-240 °F (-18 to 116 °C)		0-160 °F (-18 to 71 °C)			0-392 °F (-18 to 200 °C)		0-212 °F (-18 to 100 °C)		0-240 °F (-18 to 116 °C)	0-160 °F (-18 to 71 °C)		
<b>Field of View</b>	1:1		3:1		1:1	3:1	7:1	5:1	10:1	1:2	1:1	4:1		1:1	
<b>Response Time</b>	100 msec										50 msec				
<b>Air Purge</b>	NO		YES		NO		YES		NO		YES	NO		YES	NO
<b>Spectral Response</b>	6.5-14 μm	2-20 μm		6.5-14 μm								5.5-20 μm			
<b>Minimum Spot Size</b>	0.3"	0.16"	0.25"	0.2"	0.3"	0.25"	0.75"	0.8"		0.1"					0.3"
<b>Impedance</b>	~3 kohms		~ 10 kohms	4-8 kohms		~3 kohms	~4-10 kohms			~15-40 kohms					
<b>Cable</b>	3 feet of twisted, shielded t/c cable, 24 AWG				3 feet of twisted, unshielded t/c cable, 24 AWG			3 feet of twisted, shielded t/c cable, 24 AWG						3 feet of twisted, unshielded t/c cable, 24 AWG	
<b>Mounting</b>	None	MB-2 and locknuts included	None	MB-2 and locknuts included	None	Includes 2 ABS plastic locknuts		Can use MB-1 right angle mounting bracket (not included)		Variety of mounting brackets available				Includes 2 ABS plastic locknuts	
<b>Accuracy</b>	Can range from ±0% (0.2 °F) to ±5% (8 °F) depending on target temperature variation. For example ±40 °F variation is ± 2% (4 °F) with conventional t/c interface. See Accuracy Table.														
<b>Ambient Temperature Coefficient</b>	0.02% of reading/ °F (0.04%/ °C) (See Technote #90)														
<b>Repeatability</b>	< 0.02 °F (0.01 °C)														
<b>Interchangeability</b>	± 1% or 1 °F (0.5 °C)														
<b>Resolution</b>	~ 0.0001 °C (Johnson noise)														
<b>Emissivity</b>	Fixed at 0.9														
<b>Other Features</b>	CE , NEMA 4X, IP67, hermetically sealed, Intrinsically Safe,														