



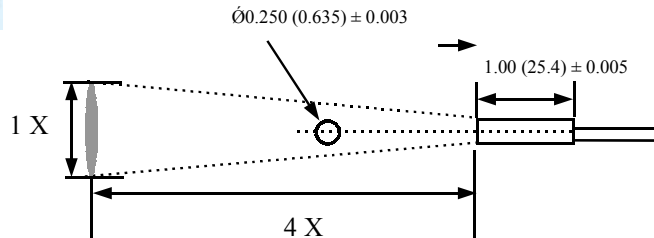
Introducing the **NEW:**
micro IRt/c.4-K-440F/220C™
& micro IRt/c.4SV-K-440F/220C™
 The World's Smallest 4:1 Field of View Infrared
 Temperature Sensors

Features

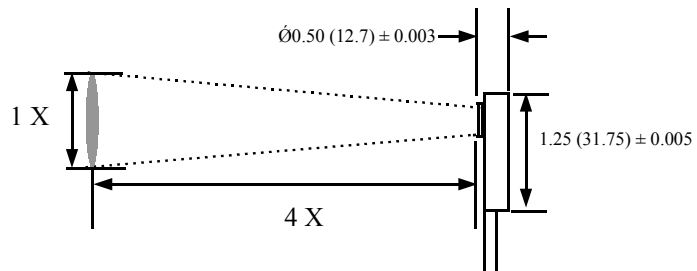
- Self powered
- Small size
- Low cost
- Mounting rings
- Air purge available
- 4:1 field of view
- Side view and straight view mount



micro IRt/c.4



micro IRt/c.4SV



Specifications

Sensing Range	-45 °C to 524 °C (2% linear to match a K t/c from 212 -240 °C)
Ambient Temperature Range	-20 °C to 100 °C (air purge jacket available for cooling to 175 °C)
Storage Temperature Range	-20 °C to 100 °C
Field of View of Sensing Element	approximately 4:1 (14°)
Minimum Spot size	3 mm (.1")
Dominant Spectral Response	5.5 to 20 μm
Output Sensor	K type thermocouple from 414 - 464 °F (212 - 240 °C), mV output tables available and recommendations for programmable devices.
Impedance	~ 40 kohms
Emissivity (e)	.90
Measurement Type	Thermopile
Resolution	Approximately 0.0003°C, Johnson Noise
Update Time	Instantaneous
Time Constant	50 milliseconds
Accuracy (Interchangeability)	1% to factory calibration conditions
Dimensions	See above
Housing	Stainless Steel 303
Cable Assembly	3 feet (0.9 meters) of unshielded, duplex insulated, type K, 24 AWG, PFA jacket, rated to 500 °F (260 °C) (Shielded cable also available)
Humidity	Non-Condensing
Power Requirements	None
Environmental Ratings	Hermetically sealed, exceeds NEMA 4, 4X, IP67

51 Water St.—Watertown, MA 02472—617.923.9900—(F) 617.923.9911—www.exergen.com



micro IRt/c Accessories

APJ-1 Air Purge Jacket P/N 150066



This convenient and inexpensive kit makes it possible to use the micro IRt/c™ with air for service in harsh environments. Measuring only 3/8" x 3" (9.5 x 76 mm) overall, the APJ-1 is physically small enough to fit into tight areas and closely monitor process temperatures from the optimum position - up close. This air purge kit ensures that the performance of a micro IRt/c does not degrade because of contamination by deposits of airborne chemicals or particles on the sensor. Efficient in design, the APJ-1 requires as little as 3.5 SCFH (1.7 L/min) of air to protect a micro IRt/c. In addition to keeping a micro IRt/c clean, the airflow through the air purge jacket can cool a micro IRt/c, allowing it to operate in environments of up to 347 °F (175 °C) with only 35 SCFH (17 L/min) at 5 psig (0.33 bar).

Features

- Small Size - 3/8" dia. x 3" long (9.5 x 76 mm)
- Aluminum housing
- Attaches to standard 3/8" tube fitting or 3/8" ID tubing
- Air purge and cooling



150062 & 836068
micro Thru-Fitting & MB-2 Mounting Bracket
plastic fitting with lock nut, sealing nut, and hub
1.17" x 0.59" (29.7 x 14.99 mm)
PG-7 thread



150037
MB-5 micro clamp mounting bracket
Stainless Steel, with silicone cushions
0.25" diameter



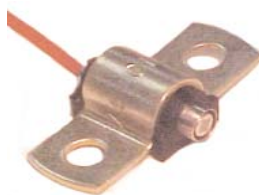
150038
MB-4 APJ-1 clamp mounting bracket
Stainless Steel, with silicone cushions
0.38" diameter



150065
APJ-1 Omega clamp
metal clamp with rubber cushion for mounting
1.81" x 0.78" (45.97 x 19.81 mm)



108000
IRt/c connector kit
type K thermocouple connectors



150064
micro Omega clamp
metal clamp with rubber cushion for mounting
1.81" x 0.78" (45.97 x 19.81 mm)



150063
APJ-1 Thru-Fitting
plastic fitting with lock nut, sealing nut and hub
1.17" x 0.59" (29.7 x 14.99 mm)
PG-7 thread

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