CYRONIX 416-444-6614

www.cyronix.com

Raytek® Thermalert® CI™ Series

Infrared Temperature Monitoring System

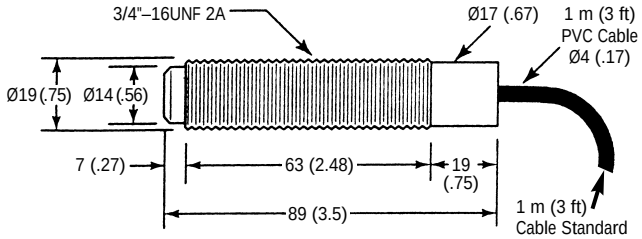
Highlights

- Type J or K, or 0-5 DC output
- Temperature Ranges from 32 to 932°F (0 to 500°C)
- 4:1 optics at 90% energy
- (95%) 350 mSec response time
- 12-24 VDC at 20 mA
- Cooling and air purging accessories

CI1 - J-type Thermocouple
32 to 662° F (0 to 350°C)
CI2 - K-type Thermocouple
32 to 662° F (0 to 350°C)
CI3 - 10mV/°C Linear Voltage
86 to 932° F (30 to 500°C) Scaled 0-5 V (0-500°C)



GENERAL DIMENSIONS



mm (inches)

GENERAL SPECIFICATIONS

Environmental Rating	IP 65 (NEMA-4)
Ambient Temperature Range:	32 to 160°F (0 to 70°C)
With air cooling	32 to 200°F (0 to 90°C)
With water cooling	32 to 500°F (0 to 260°C)
Accuracy Range:	
Range A	±2% or ±6°F (±3°C), whichever is greater
32 to 662°F (0 to 350°C)	btw 32 to 240°F (0 to 115°C)
	±5% or ±10°F (±6°C), whichever is greater btw 240 to 440°F (115 to 225°C)
	>±5% btw 440 to 662°F (225 to 350°C)
Range B:	±2% or ±6°F (±3°C), whichever is greater
86 to 932°F (30 to 500°C)	btw 212 to 932°F (100 to 500°C)
	±5% or ±10°F (±6°C), whichever is greater btw 86 to 212°F (30 to 100°C)
Storage Temperature:	-22 to 185°F (-30 to 85°C)
Relative Humidity:	10 to 95%, non-condensing
Shock:	IEC 68-2-27 (MIL STD 810D) 50 g's, 11 mSec, any axis
Vibration:	IEC 68-2-27 (MIL STD 810D) 3 g's, any axis, 11-200 Hz
Weight:	4.5 oz (130 g)

CE

ISO 9001 Certified

MEASUREMENT SPECIFICATIONS

Spectral Response:	7 to 18 microns
System Repeatability:	±1% of measured value or ±2°F (1°C), whichever is greater
Temperature Resolution:	<1°F or 0.5°C
Response Time (95%):	350 mSec
Emissivity:	Fixed at 0.95

ELECTRICAL SPECIFICATIONS

Outputs:	User-selectable Thermocouple output (model specific, either J or K) or Voltage output 10mV/°C
Cable Length:	3 ft (0.9 m) standard, longer cables optional
Output Impedance:	50 ohms
Minimum Load Impedance	50K ohms
Power Supply:	12-24 VDC (≤2.5% ripple) @ 20mA

ACCESSORIES/OPTIONS*

Sensing head comes with a 3 ft (0.9 m) cable, two mounting nuts and an operator's manual

- Thermalert GP monitor provides display, power to CI3, and 4-20 mA output
- High temperature cables (standard with air-/water-cooled housing)
- Adjustable or fixed mounting bracket
- Air purge collar
- Thermocouple connection kit and extension cable
- Longer cables 10 ft, 50 ft (3 m, 15 m)
- Air-/water-cooled housing*
- NIST certification*

**must be specified at time of order*