



29230 2 and 3-wire configuration options

29309 4-wire configuration option

Specifications

Sensing Element International grade thin film platinum a = $0.00385 \Omega/\Omega/^{\circ}$ C per IEC 751

Temperature Range -200°C to 260°C (-320°F to 500°F)

Ice Point Resistance $100 \pm 0.12\Omega$ or $1000 \pm 1.2\Omega$, International Class B, ($\pm 0.12\%$)

Time Constant <0.3 Seconds on metal surfaces

Self Heating >15 mW/°C mounted

Interchangeability ±(0.3°C @ 0°C + 0.005 |t|°C) IEC 751 Class B above –50°C

Long Term Stability Better than 0.05°C (0.02Ω) per 5 years, above –50°C

Insulation Resistance >50 MegOhms at 50VDC at 25°C

Maximum Current $100\Omega = 5 \text{ mA}, 1000\Omega = 2 \text{ mA}$ for limited self heating

Recommended Current 1 mA maximum

Case Material Kapton[®] Sensor is refractory passified overall before lamination

Lead Materials

28 AWG nickel-coated, stranded copper PFA Teflon[®] insulated parallel conductors

Teflon[®] is a registered trademark of the DuPont Corporation.



These low cost, sealed platinum surface RTDs are the world's toughest.

The IEC 751 sensor is refractory sealed for ±0.05°C stability. Its small strong design allows this package to conform on curved surfaces for accurate response in milliseconds. Leads welded within the sealed RTD provide this sensor's durability. Moisture resistance for condensing environments or shallow immersion is provided by Kapton®/Teflon® lamination that completely encapsulates the assembly and lead entrance. Standard operating range is -200°C to 260°C. Clamped sensors can withstand 315°C.

- Strong welded leads
- •Full platinum RTD stability
- Tough
- Completely sealed to condensation
- Strain isolated
- •Temperature range is –200°C to 260°C
- •Time constant is 0.3 seconds on metal surfaces

•Long-term stability better than 0.05°C (0.02Ω) per 5 years



Ordering Information & Options





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