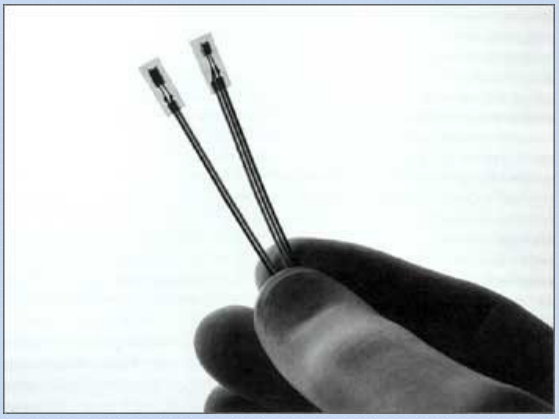
# LOW-COST PLATINUM RTD CAPSULE

Model 29230



## *Specifications*

**Sensing Element** Platinum per IEC 751
α = 0.00385 Ω/Ω/°C, Class B
**T01**: 100 Ω ± 0.12 Ω @ 0°C
**T05**: 500 Ω ± 0.6 Ω @ 0°C
**T10**: 1000 Ω ± 1.2 Ω @ 0°C

α = 0.00385 Ω/Ω/°C, Class A
**A01**: 100 Ω ± 0.06 Ω @ 0°C
**A10**: 1000 Ω ± 0.6 Ω @ 0°C

**Accuracy**
IEC 751 Class B: ±(0.3°C + 0.005 |t|)
IEC 751 Class A: ±(0.15°C+ 0.002 |t|)

**Temperature Range** -50°C to 232°C (-60°F to 450°F), to 260°C (500°F) in dry applications.

**Response Time** 0.3 seconds in water flowing at 3 ft per second

**Stability** better than 0.05°C per 5 years

**Self Heating** typically less than 25 mW/C

**Insulation Resistance** 10 Megohms minimum at 50 VDC

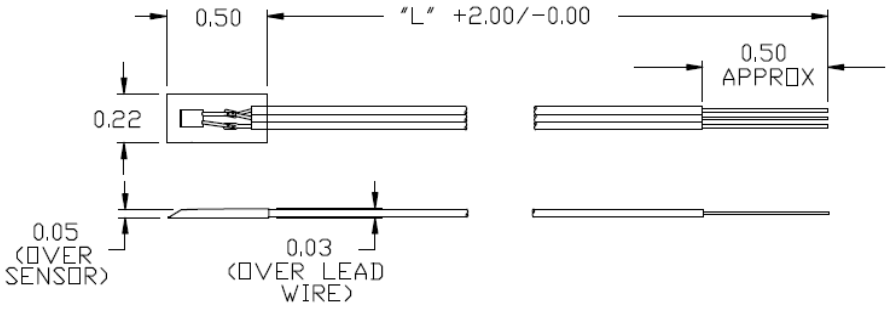
**Operating Current** 0.5 mA

**Lead Wires** 28 AWG stranded nickel plated copper, PFA Teflon® insulated ribbon cable

**Case Material** Kapton®

## *Features*

- Small strong design allows this RTD to conform on curved surfaces for accurate response in milliseconds
- Full platinum RTD stability
- Moisture resistance for condensing environments or shallow immersion is provided by Kapton®/Teflon® lamination that completely encapsulates the assembly and lead entrance
- Strain isolated




## *Ordering Information & Options*

| 29230 | Sealed Metal Platinum RTD Capsule | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Resistance Specification<br>T01: 100 Ω ± 0.12 Ω @ 0°C<br>T05: 500 Ω ± 0.6 Ω @ 0°C<br>T10: 1000 Ω ± 1.2 Ω @ 0°C<br>A01: 100 Ω ± 0.06 Ω @ 0°C<br>A10: 1000 Ω ± 0.6 Ω @ 0°C | | | | | |
| | | | | Number of Wires<br>A: 2-wire<br>B: 3-wire | | | |
| | | | | | | Lead Length in Inches | |
| 29230 | - | T01 | - | A | - | 12 | |