



T H E R M O M E T R I C S  
A C O M M I T M E N T T O E X C E L L E N C E

# Myocardial Temperature Sensors

## Small Diameter Chips Track 400 Series Curve

During open heart surgery, hypothermia is used to chill the heart muscle in order to perform bypass and other procedures. To assure critical temperatures are achieved, myocardial temperature sensors—small, right angle hypodermic needles—are inserted directly into the heart muscle. Thermometrics has developed special, small diameter NTC chip thermistors to fit into the small gage needles while tracking the 400 series R-T curve. The needle assemblies are supplied ready for sterilization and use.



### Typical Applications

- Myocardial temperature measurement
- Other medical penetration applications
- Animal studies
- Microbiology

### Features and Benefits

- 400 Series compatible
- Interchangeable for single use
- Extremely small size, fast response
- Reliable performance
- Temperature accuracies to  $\pm 0.10^{\circ}\text{C}$
- Designed for sterilization
- Available in a range of standard needle lengths

**Amphenol**  
**Advanced Sensors**

## Technical Specifications

Standard needle lengths	18, 30 mm std., 8 mm available
Needle gage	22 ga. (0.028" O.D.) with sharp pointed tips
Temperature range	0° to 70°C (Others available.)
R-T curves	2252 ohms @ 25°C (400 series), 10K @ 25°C
Accuracy and interchangeability	down to $\pm 0.10^{\circ}\text{C}$
Response times	0.23 seconds in water
Can be ETO, autoclave, e-beam sterilized	

Note: Thermometrics is a sensor supplier to OEM manufacturers. We do not offer direct sales to clinics, hospitals, or end users.