

TS22545 Series Thermistor Bolt Sensor

Thermistor probe for medical temperature measurement applications

Overview

Minco temperature sensors deliver unmatched performance, value and reliability to meet the demanding requirements in a variety of applications. Thermistor sensors offer high sensitivity and accuracy for medical diagnostics equipment and many other applications.

The versatility of bolt style temperature sensors makes them popular in a wide variety of applications throughout many industries. Thermistor configurations are most popular for their high sensitivity in medical equipment, while platinum RTD configurations are popular in industrial equipment for the extended temperature range.

- Temperature range: -50°F to 250°F (-45.6°C to 121.1°C))
- 167°F (75°C) max continuous for best stability
- Accuracy +/- 0.18°F (0.10°C) up to 122°F (50°C)
- · Optional connector for easy installation
- · M4 and larger bolt styles
- Stainless steel cases for high strength and corrosion resistance or aluminum cases for faster thermal conductivity
- Platinum RTD configurations also available for extended temperature range

Diagnostics Applications

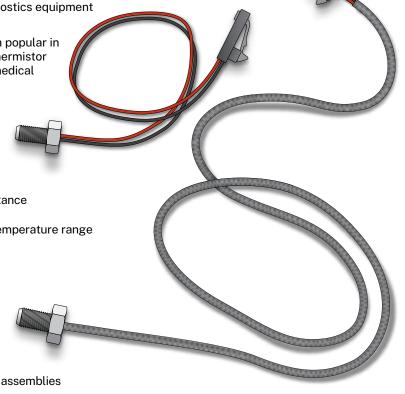
Minco understands the critical requirements of your applications. Thermistor sensors are used to monitor reagents, chambers, enclosures, and ambient environmental temperature. Bolt sensors are also easily installed into heat-sinks to provide temperature feedback for PCR process control.

- Small bolt profile offers low thermal mass for fast time response and installation into small heatsinks and thermal assemblies
- Thermistor sensors are suitable for integration with many popular control systems
- · Easily removed for periodic calibration to maintain quality standards

Additional Capabilities

Minco's broad development, integration, and assembly capabilities make us more than just a sensor supplier. We can optimize functional and packaging efficiency, and provide greater design flexibility for your application. We offer the following services:

- Comprehensive development support
- Seamless integration of sensors, heaters, flex circuits, controllers, transmitters, and other electronics
- · Broad-based assembly capabilities





Thermistor Bolt Configuration Guide

Customize the sensor to best fit application needs

Consult with the following table to configure your TS22545series bolt sensor and determine its Minco part number.

TS22545	The	rmistor Bolt	Probe Type				
1	0	0 0 M4x0.7 - 0.093" (2.36mm) hex					
	1 1 M5x0.8 - 0.101" (2.57mm) hex					D-14 O'	
	2	2 M6x1.0 -	Bolt Size				
	3	8-32 UNC					
	4	10-32 UNF					
	5	1/4-20 UN	C - 0.12	mm) hex			
		TD			at 77°F (25°C), Beta0-50 = 3892K	Sensing Element	
		TQ			at 77°F (25°C), Beta0-50 = 3892K	3	
	6 Specify in whole inches; standard lengths: 6" (0.15m); 12" (0.3m);						
					(0.9m); 60" (1.5m) Lead Length	Lead Length	
			1	S	PTFE insulated leads, copper braid shielding, drain wire and FEP jacket overall		
				Т	PTFE insulated leads, no jacket	Lead Wire Type	
				↓	N No connector		
					C1 Connector Terminal, AMP 104257-1 (2 contacts)	Connector Option	
TS22545	2	TD	6	S	C1 Sample	Sample Part Number	