TS22545 Series Thermistor Bolt Sensor

Thermistor probe for medical temperature measurement applications.

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.

Overview

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



Thermistor Bolt Configuration Guide

TS22545	Tł	ermistor Bolt Sensor					Probe Type
	0	M4x0.7 – 0.093" (2.36mm) hex					Bolt Size
	1	M5x0.8 – 0.101" (2.57mm) hex					
	2	M6x1.0 – 0.125" (3.18mm) hex					
	3	8-32 UNC – 0.093" (2.36mm) hex					
	4	10-32 UNF – 0.101" (2.57mm) hex					
	5	5 1/4-20 UNC – 0.125" (3.18mm) hex					
	F	TA	2,2	,252 Ohms at 77°F (25°C), Beta ₀₋₅₀ = 3892K			
		TD	10,	000) Ohm	Sensing Element	
		ΤQ	30,	000			
			6	Sp	ecify i	Lead Length	
				S	PTFE	Lead Wire Type	
				Т	PTFE		
					N	No Connector	Connector
					C1	Connector Terminal, AMP 104257-1 (2 contacts)	Option
TS22545	2	TD	6	S	C1	Sample Part Number	

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:

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

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