



TEMPERATURE SENSORS FOR VITAL SIGNS MONITORING

External temperature measurement has advanced technology and devices, creating better tools for temperature measurement in vital signs monitoring applications. This data can be essential to patients suffering from various conditions such as infections or hypothermia. The temperature measurement of the surface of the body can be accomplished using various sensor technologies. TE Connectivity (TE) manufactures a wide range of temperature sensors to support the accuracy, packaging and performance requirements of these applications to create a safer, sustainable, productive and connected future.




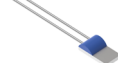



- THERMOPILES
- DIGITAL TEMPERATURE SENSORS
- RTD SENSORS
- MICRO-THERMOCOUPLES
- NTC THERMISTORS
- NTC THERMISTOR ASSEMBLIES

DESIGN QUESTIONS

- What is the temperature range required?
- What is the accuracy required over the range?
- What size is required?

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	Analog Thermopiles	Digital Thermopiles	Digital Temperature Sensors	RTD Sensors	Micro-Thermocouples	Discrete NTC Thermistors	NTC Thermistor Assemblies
Model	TS318 TS305	TSD305	TSYS01 TSYS02 TSYS03	Platinum Thin Film Elements	60x	44000	4499
Dimensions (mm)	9.15 x 4.3 (body) 5.34 x 2.70 (body)	9.15 x 4.3 (body)	4 x 4 x 0.85 2.5 x 2.5 x 0.75 1.5 x 1.5 x 0.38	1.2 x 4.0 x 1.1 2.0 x 2.3 x 1.1 2.0 x 4.0 x 1.1 2.0 x 5.0 x 1.1	0.075 x 1.150 0.104 x 0.206 0.132 x 0.264 0.165 x 0.325	2.4 max (body)	9.5
Maximum Temperature	85°C (object)	300°C (object)	125°C	600°C	180°C	75°C	75°C
Temperature Accuracy	±1.0°C	±1.0°C	±0.1°C ±0.2°C ±0.5°C	±0.1°C ±0.15°C ±0.3°C ±0.6°C	±0.5°C ±1.0°C	±0.1°C ±0.2°C	±0.1°C
Unique Features	<ul style="list-style-type: none"> • High signal output • Accurate reference sensors • Non-contact 	<ul style="list-style-type: none"> • Calibrated and ready to use • I²C interface • Non-contact 	<ul style="list-style-type: none"> • Low power • Small size • Digital interface 	<ul style="list-style-type: none"> • High accuracy • Broad temperature range • Range of sizes 	<ul style="list-style-type: none"> • Low thermal mass • Fast response time • Very small size 	<ul style="list-style-type: none"> • Small size • Long-term stability • High sensitivity 	<ul style="list-style-type: none"> • Fast response time • Resusable • Standard resistance value