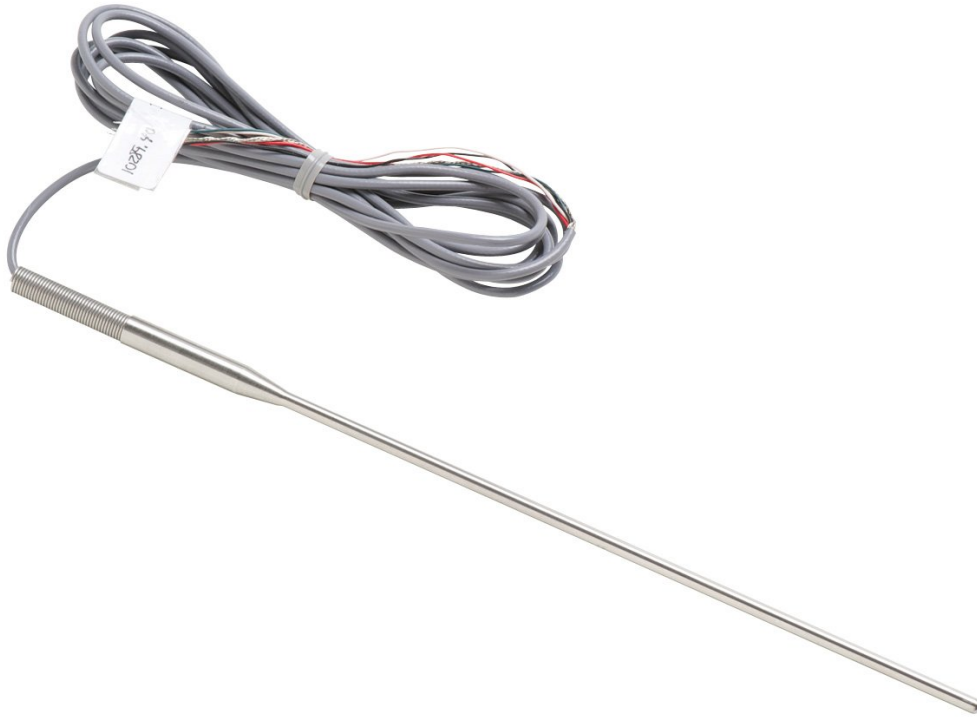


Technische daten

Hart 5610, 5611A, 5611T, 5665 Secondary Reference Thermistor Probes







Wichtigste Merkmale

- Short-term accuracy to ± 0.01 °C; one-year drift $< \pm 0.01$ °C
- Accredited NVLAP calibration optional
- Flexible PTFE and silicone coated fast-response models
- Rugged polished stainless steel sheaths

Produktübersicht: Hart 5610, 5611A, 5611T, 5665 Secondary Reference Thermistor Probes

These temperature probes are available in a variety of sheath materials appropriate for your specific application. In addition to our metal-sheathed temperature probes, we offer flexible PTFE encapsulated and silicone coated thermistors that have smaller tips and can measure those places where even a metal-sheathed thermistor can't reach.

PTFE encapsulated thermistor

The 5611T is an especially versatile PTFE coated thermistor probe. With a PTFE encapsulated tip that is just 3 mm (0.12 in) in diameter and a PTFE coating that makes it impervious to most liquids, the PTFE Probe is handy for measuring in a wide variety of applications, including bio-pharmaceuticals. It's even immersible to nearly 20 feet and flexible enough that you could roll it up into a ball in your hand if you wanted to!

The 5611T's thermistor bead is encapsulated in a Mylar sleeve that is encapsulated inside a PTFE sleeve. The PTFE sleeve is then melted around the PTFE-insulated cable, forming a moisture-proof seal.

Stainless steel sheathed thermistors

Our stainless steel metal-sheath probes include our 5610-6 and 5610-9 immersion probes, as well as our 5665 fully immersible probe. These probes are great for measuring in air, liquid or soil.

Silicone coated thermistor

With a diameter at the tip of just 1.5 mm (0.06 in), the 5611A's tip has the smallest diameter of any of our secondary reference thermistors and can fit nearly anywhere. Its faster response time, flexible sheath, and silicone coating make the 5611A great for use in many applications. However, applications involving silicone oil could damage the thermistor and should be avoided.

Higher performance

All Fluke Calibration secondary reference thermistors have small diameters and very small sensing elements, which means they require far less immersion than a PRT to avoid errors caused by stem effect. Self heating is usually negligible, giving them an advantage when taking measurements in air. Their small size also improves response time, allowing measurements to be taken more quickly.

If your application involves frequent handling, you'll be especially interested to know thermistors are less susceptible to mechanical shock than PRTs. The bottom line may be better accuracy in fieldwork.

Additionally, higher base resistance and larger resistance coefficients make it easier to achieve precision readings with thermistors, so better resolution and accuracy are possible for a lower cost. All of these thermistors have a negative temperature coefficient of resistance (NTC).

Readouts

These probes come in a complete assembly ready for use, and each works well with the uncertainties of our thermometer readouts: the [1504 Tweener](#), the [1523](#) and [1524 Handheld Thermometers](#), the [1529 Chub-E4](#), the [1560 Black Stack](#), and the [1575A and 1590 Super-Thermometers](#).

These probes provide most accurate readings when coupled with a 2563 Standards Thermistor Module or 1590 Super-Thermometer, but they are most portable when used with a handheld reference thermometer.

Calibrated accuracy

What's more, the Secondary Reference Series Thermistors are accurate to ± 0.01 °C and cover the temperature range of 0 °C to 100 °C. They come with a NIST-traceable calibration and a resistance-versus-temperature table printed in 0.1



°C increments that can be interpolated to 0.0001 °C. NVLAP accredited calibrations as single thermistors or as systems combined with their readouts, are also available.

No other sensors can match the accuracy and price combination of these high-accuracy thermistor probes. Try one and you'll agree.

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Specifications	
Resistance	Nominal 10,000 Ω at 25 °C
Range	0 °C to 100 °C
Calibration	R vs. T table with 0.1 °C increments, interpolation equation furnished
Calibration uncertainty	Table and equation are accurate to ±0.01 °C
Drift	Better than ±0.01 °C per year
Repeatability	Better than ±0.005 °C
Size and Construction	See illustrations below.
Termination	Specify when ordering.

Fluke. *Damit Ihre Welt intakt bleibt.*

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Anderungen vorbehalten

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