

HIGH TEMPERATURE CABLE SENSOR

TSK-HT Series

FEATURES

- High temperature 260°C
- Universal application
- High measuring accuracy
- Mounting in any direction
- EN 60730-2-9 approved

OPTIONS

- Dual sensor (2 x NTC/Pt)
- Tube fixing strip
- Mounting bracket or flange

APPLICATIONS

- Solar
- Ovens
- Catering equipment
- Fryers
- Pellet burners



GENERAL INFORMATION

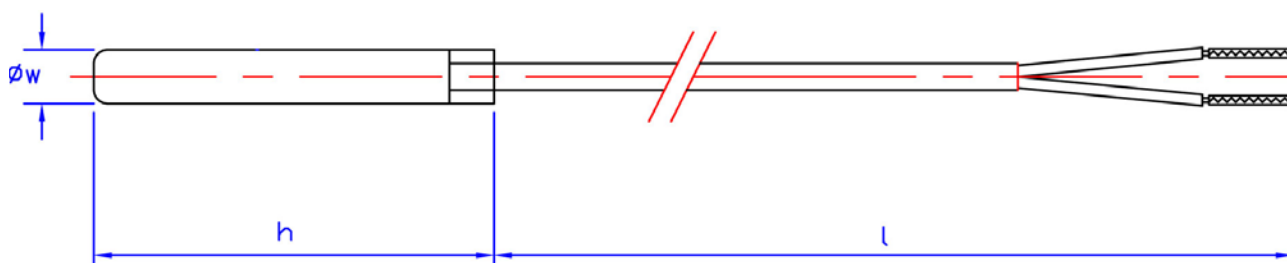
The Tasseron high temperature cable sensor is developed specifically for applications in extreme conditions. The line-welded wire connections and the PTFE cable guarantee a long-term functioning in a temperature range of -40...260°C. The stainless steel (AISI 304) tube is available in various dimensions.

The sensor measures indirectly when placed in an immersion well or installed onto a pipe or surface. For direct measurement it can be placed in the medium (water, oil, gas, air etc.), using a flange.

GENERAL TECHNICAL INFORMATION

Characteristic	Parameter	Value	Unit
Operating temperature	T_{op}	-40...260	°C
Resistance tolerance NTC (@25°C)	ΔR_R	± 1	%
Resistance tolerance Pt100 (Class B)	ΔR_R	$\pm 0,12$	Ω
Resistance tolerance Pt1000 (Class B)	ΔR_R	$\pm 1,2$	Ω
Temperature coefficient Pt100/Pt1000	TCR	3850	ppm/K
Insulation resistance	R_{ins}	>200	M Ω
Test Voltage (t = 1s)	V_{test}	2000	V _{AC}

MEASUREMENTS & MATERIALS



Standard

Tube sizes ($\varnothing w \times h$) : 5 x 30 mm / 5 x 45 mm / 6 x 45 mm
 Tube material : AISI 304 (DIN 1.4301)
 Cable lengths (l) : 1m / 3m / 5m
 Cable type : AWG24 2 x 0.205 mm², PTFE
 Electrical connection : Splice

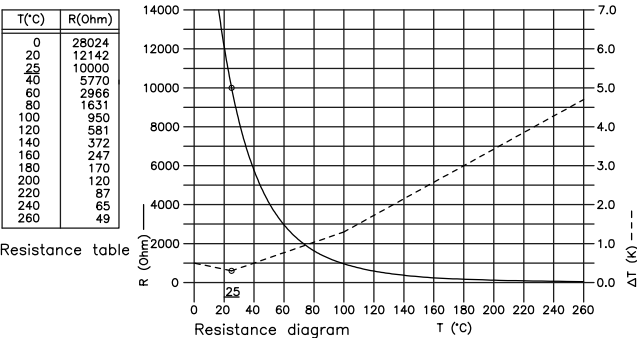
Options

Pipe mounting brackets : $\varnothing 15$ mm / $\varnothing 18$ mm / $\varnothing 22$ mm / $\varnothing 28$ mm
 Tube fixing strip : AISI 304 (DIN 1.4301)
 Dual sensor (Duplex) : 2 x NTC/Pt
 Connector : Molex Minifit Jr.

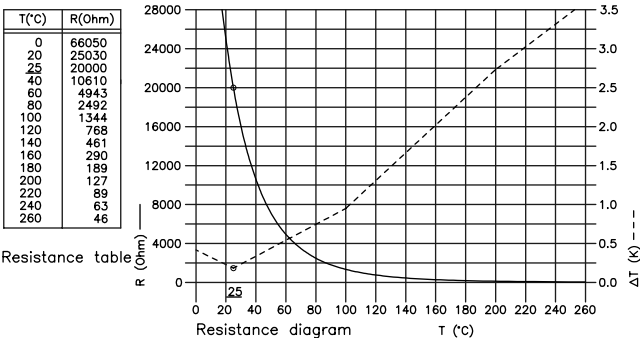
(Other dimensions or connectors on request)

AVAILABLE SENSOR VALUES

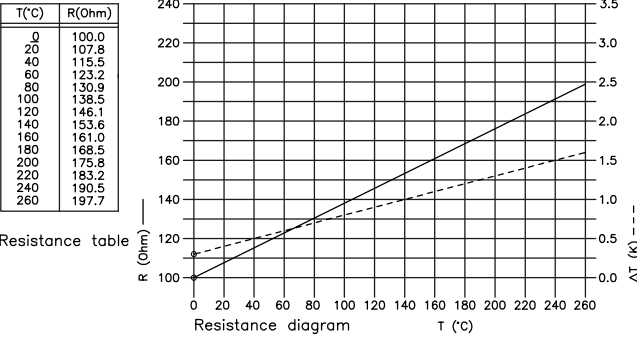
NTC 10K 3%_{60°C} B3435



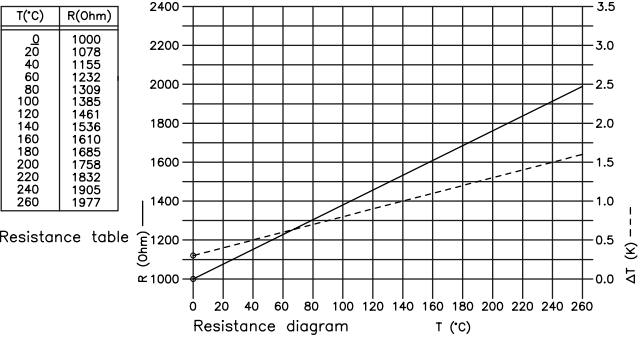
NTC 20KΩ 1%_{25°C} B3970



Pt100 (IEC751, class B)



Pt1000 (IEC751, class B)



ORDERING INFORMATION

Example : TSK 3 45 6
Cable sensor 3 45 6
High temperature 3 45 6
Pt1000 3 45 6
Ø6 x 45 mm tube, 1m cable 6

TSK 3



Measuring element
0D = NTC 10K 3% B3435
0C = NTC 20K 3% B3970
41 = Pt100 (IEC751, class B)
45 = Pt1000 (IEC751, class B)

Tube size	+	Cable length
0 = Ø5 x 30 mm		1 m
1 = Ø5 x 30 mm		3 m
2 = Ø5 x 30 mm		5 m
3 = Ø5 x 45 mm		1 m
4 = Ø5 x 45 mm		3 m
5 = Ø5 x 45 mm		5 m
6 = Ø6 x 45 mm		1 m
7 = Ø6 x 45 mm		3 m
8 = Ø6 x 45 mm		5 m

Other measuring elements, cable lengths and connectors on request.