

RTD ELEMENT WITH LEADS	TSEx	DESIGN	MAXIMUM TEMPERATURE	INSULATION			LEADS																																	
				element	leads	outer	type	wires																																
Insulation - Teflon®, silicone, fiberglass, or ceramic (see table notes) Wire leads - Cu, Ni, or Ag (see table notes)																																								
<p>DESIGN 1 (TSE1)</p> <p>L = 100 ... 2000 mm</p> <p>DESIGN 2 (TSE2)</p> <p>L = 100 ... 2000 mm</p> <p>DESIGN 3 (TSE3)</p> <p>L = 100 ... 2000 mm</p> <p>DESIGN 4 (TSE4)</p> <p>L = 100 ... 1000 mm</p>	1	200 °C	Teflon®	Teflon®	none Teflon® silicone	Cu stranded 0.14(22) mm ²	2, 3, 4* 2, 3, 4* 2, 3, 4*	2x2 2x2 2x2																																
	2	400 °C 550 °C	SS tube, cement	glass sleeves	none glass	Cu, Ni solid 0.5 mm	2, 3, 4* 2, 3, 4*	2x2 2x2																																
	3	400 °C 600 °C 800 °C	ceramic, cement	ceramic beads	-	Cu, Ni, Ag solid 0.5 mm	2, 3, 4	2x2																																
	4	400 °C 600 °C 800 °C	ceramic, cement	ceramic rod	-	Cu, Ni, Ag solid 0.5 mm	2, 3, 4	2x2																																
		<p>RTD element: (simplex or duplex) Pt50 (RB), Pt100 (RD), Pt500 (RF), Pt1000 (RG)</p> <p>Accuracy class: 'A', 'B', or '2xB' (see Appendix - RTD Tolerance)</p> <p>Minimum mounting hole diameter ('d'):</p> <table border="1"> <thead> <tr> <th rowspan="2">Design</th> <th colspan="3">Wire leads</th> </tr> <tr> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1</td> <td>no outer insulation</td> <td>3 mm</td> <td>4 mm</td> <td rowspan="3">5 mm</td> </tr> <tr> <td>Teflon® outer insulation</td> <td>4 mm</td> <td>5 mm</td> </tr> <tr> <td>silicone outer insulation</td> <td>5 mm</td> <td>6 mm</td> </tr> <tr> <td rowspan="2">2</td> <td>no outer insulation</td> <td>4 mm</td> <td>5 mm</td> <td rowspan="2">6 mm</td> </tr> <tr> <td>glass outer insulation</td> <td>5 mm</td> <td>6 mm</td> </tr> <tr> <td>3</td> <td>5 mm</td> <td rowspan="2">6 mm</td> <td rowspan="2">6 mm</td> </tr> <tr> <td>4</td> <td>6 mm</td> </tr> </tbody> </table> <p>Outer diameter: d1 ≤ d - 0.5 mm</p> <p>Wire material: Cu (up to 450 °C), Ni, or Ag</p> <p>Insulation material: - silicone or Teflon® (max. 200 °C) - glass fiber (max. 550 °C) - SS 316 (max. 850 °C) - ceramic 610 (max. 1500 °C)</p> <p>Lead termination: - free (flying) leads, 10...15 mm non-insulated - ceramic base and screw terminals for heads w/ 20 mm mounting distance - ceramic base and screw terminals for heads w/ 33 mm mounting distance</p>							Design	Wire leads			2	3	4	1	no outer insulation	3 mm	4 mm	5 mm	Teflon® outer insulation	4 mm	5 mm	silicone outer insulation	5 mm	6 mm	2	no outer insulation	4 mm	5 mm	6 mm	glass outer insulation	5 mm	6 mm	3	5 mm	6 mm	6 mm	4	6 mm
Design	Wire leads																																							
	2	3	4																																					
1	no outer insulation	3 mm	4 mm	5 mm																																				
	Teflon® outer insulation	4 mm	5 mm																																					
	silicone outer insulation	5 mm	6 mm																																					
2	no outer insulation	4 mm	5 mm	6 mm																																				
	glass outer insulation	5 mm	6 mm																																					
3	5 mm	6 mm	6 mm																																					
4	6 mm																																							
		* Please contact COMECO!																																						

Ordering code TSE(1,2,3,4) - G1G2.G3.G4.G8.G11.G12.G13 - #1.#2

Code	Feature or option	Code values
G1	Number of RTD sensors	1, 2
G2	Sensor	RB - Pt50, RD - Pt100, RF - Pt500, RG - Pt1000
G3	Temperature range ⁽¹⁾	T1 - -50...400 °C, T4 - 0...800 °C, T9 - -50...200 °C, T11 - -50...600 °C ⁽²⁾
G4	Mounting hole diameter 'd' ⁽¹⁾	3 - ≥ 3 mm ⁽⁵⁾ , 4 - ≥ 4 mm, 5 - ≥ 5 mm, 6 - ≥ 6 mm, 7 - > 6 mm
G8	Lead length 'L' [mm]	100...2000 ⁽¹⁾
G11	Accuracy class	A - 'A', B - 'B', C - '2xB'
G12	Number of wires ⁽¹⁾	2, 3, 4 ⁽⁵⁾
G13	Wire material ⁽¹⁾	CU - copper ⁽³⁾ , NI - nickel, AG - silver
#1	Additional outer lead insulation	X - none, I - mounted ⁽⁴⁾
#2	Lead termination options	X - none (free leads), M - ceramic base and screw terminals for heads w/ 20 mm mounting distance, B - ceramic base and screw terminals for heads w/ 33 mm mounting distance

⁽¹⁾ Applicable for the selected design

⁽²⁾ Up to 550 °C for TSE2!

⁽³⁾ Not applicable for temperatures above 450 °C!

⁽⁴⁾ Only for TSE1 and TSE2!

⁽⁵⁾ Contact COMECO!