

RTD BAYONET CABLE PROBE Sheath - stainless steel (see table notes) Cable - see table notes	Bx (TSBx)	SENSITIVE ELEMENT	CABLE TYPE	TEMPERATURE RANGE	DIMENSIONS																																								
					d [mm]	wires																																							
<p><b>STRAIGHT-TUBE DESIGN (B)</b></p> <p><b>DESIGN WITH ANGLED TERMINATION (BL)</b></p> <p><b>STRAIGHT DESIGN WITH MOVABLE CONNECTION (BG)</b></p> <p><b>ANGLED DESIGN WITH MOVABLE CONNECTION (BGL)</b></p>	<p>1 x Pt (RB,RD,RF,RG)</p> <p>2 x Pt (RB,RD,RF,RG)</p> <p>1 x Cu (RH, RK)</p> <p>2 x Cu (RH, RK)</p> <p>1 x PTC (RP, RQ)</p> <p>2 x PTC (RP, RQ)</p>	<p>SLSL, TSL, TT YY, UU, YU</p> <p>SLSL, TSL, TT, GLGL</p> <p>GLGL, SFSF TT, TSL, SLSL</p> <p>SLSL, TSL, YY, UU, YU</p> <p>GLGL, TT</p> <p>SLSL, TSL, YY, UU, YU</p> <p>GLGL, TT</p>	<p>T7 0...200 °C T9 -50...200 °C</p> <p>T1 -50...400 °C T8 0...400 °C</p> <p>T11* -50...600 °C T22 -200...200 °C</p> <p>T9 -50...200 °C</p> <p>T7 0...200 °C</p> <p>T12 -50...100 °C</p> <p>T19 0...100 °C</p>	<p>4, 4.5, 5 6 8</p> <p>6, 8</p> <p>5* 6 8</p> <p>6, 8</p> <p>6 8</p>	<p>2, 3* 2, 3, 4* 2, 3, 4</p> <p>2x2, 2x3*</p> <p>2, 3* 2, 3, 4* 2, 3, 4</p> <p>2x2, 2x3*</p> <p>2, 3 2x2</p>																																								
	<p><b>Sheath material:</b> 1.4301 (M1), 1.4541 (M2), 1.4571 (M3), 1.4404 (M9)</p> <p><b>Cable type:</b> - GLGLP(V) (glass fiber w/ steel braid, max. 400 °C ambient temperature) - SLSL or TSL (silicone, max. 250 °C ambient temperature) - TT (Teflon®, max. 250 °C ambient temperature) - YY (PVC, max. 100 °C ambient temperature) - UU or YU (PUR, max. 80 °C ambient temperature) - SFSF (mineral fiber, max. 1000 °C ambient temperature)</p> <p><b>Applicable cables:</b></p> <table border="1"> <thead> <tr> <th>Temp. range</th> <th>Probe design</th> <th>B, BG</th> <th>BL, BGL</th> </tr> </thead> <tbody> <tr> <td>T12, T19</td> <td></td> <td>all</td> <td>all</td> </tr> <tr> <td>T7, T9</td> <td></td> <td>no PUR, no PVC</td> <td>all</td> </tr> <tr> <td>T22</td> <td></td> <td>TT</td> <td>TT, SLSL, TSL</td> </tr> <tr> <td>T1, T8</td> <td></td> <td>GLGLP, SFSF</td> <td>no PUR, no PVC</td> </tr> <tr> <td>T11</td> <td></td> <td>SFSF</td> <td>GLGLP, SFSF</td> </tr> </tbody> </table> <p><b>Tip shape:</b> standard, narrowed, pitted (see Appendix - Tip shapes)</p> <p><b>Accuracy class:</b> 'A', 'B', or '2xB' (see Appendix - RTD Tolerance)</p> <p><b>Cable connector:</b> 4-pin (C3) (see Appendix - Connectors)</p> <p><b>Bayonet:</b> Ø13x1... Ø20x1; aluminum, brass, or stainless steel</p> <p><b>Available threads and HEX sizes:</b></p> <table border="1"> <thead> <tr> <th>G</th> <th>M8</th> <th>M10 1/8"</th> <th>M12 1/4"</th> <th>M14</th> <th>M16 3/8"</th> <th>M18</th> <th>M20 1/2"</th> </tr> </thead> <tbody> <tr> <td>SW</td> <td>10</td> <td>12(13)</td> <td>14</td> <td>17</td> <td>19</td> <td>22</td> <td>24</td> </tr> </tbody> </table>					Temp. range	Probe design	B, BG	BL, BGL	T12, T19		all	all	T7, T9		no PUR, no PVC	all	T22		TT	TT, SLSL, TSL	T1, T8		GLGLP, SFSF	no PUR, no PVC	T11		SFSF	GLGLP, SFSF	G	M8	M10 1/8"	M12 1/4"	M14	M16 3/8"	M18	M20 1/2"	SW	10	12(13)	14	17	19	22	24
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COMECO reserves the right of changing specifications without prior notice!

**Ordering code** TSB(L,G,GL) - G1G2.G3.G4.G5'G5".G6.G8.G9.G10.G11.G12.G14.G15 - #1

Code	Feature or option	Code values	
G1	Number of RTD sensors	1 or 2	
G2	Sensor	RB - Pt50, RD - Pt100, RF - Pt500, RG - Pt1000, RH - Cu50, RK - Cu100, RP - PTC 1k, RQ - PTC 2k	
G3	Temperature range	T1 - -50...400 °C, T7 - 0...200 °C, T8 - 0...400 °C, T9 - -50...200 °C, T11 - -50...600 °C <sup>(1,2,7)</sup> , T12 - 50...100 °C, T19 - 0...100 °C, T22 - -200...200 °C	
G4	Diameter 'd' [mm]	regular RTD	4, 5, 6, 8
		MI RTD <sup>(1)</sup>	4.5, 6, 8 <sup>(7)</sup>
G5'	Bayonet size <sup>(3)</sup>	13 - ø13x1, 14 - ø14x1, 15 - ø15x1, 17 - ø17x1, 20 - ø20x1, Z - other (specify!)	
G5"	Bayonet material <sup>(3)</sup>	AL - aluminum, BR - brass, SS - stainless steel	
G6	Probe length 'n' [mm]	10...200	
G8	Cable length 'k' [m] and type	1GL...10GL - glass fiber, 1SL...10SL - silicone, 1TF...10TF - Teflon®, 1PU...10PU - polyurethane <sup>(7)</sup> , 1MF...10MF - mineral fiber, 1PV...10PV - PVC	
G9	Mounting connection <sup>(4)</sup>	Q0 - M16x1.5, Q1 - M18x1.5, Q2 - M20x1.5, Q3 - G3/8", Q4 - G1/2", Q7 - M12x1.5, Q8 - M14x1.5, Q10 - 1/2" NPT, Q18 - G1/8", Q19 - 1/8" NPT, Q20 - M10x1, Q23 - G1/4", Q24 - 1/4" NPT, Q26 - M8x1, Q29 - M8x1.25, Q30 - M10x1.5, Q31 - M6x1, Uxx - union nut (xx - same as for Qxx)	
G10	Sheath material (wetted parts)	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404	
G11	Accuracy class	X - none <sup>(5)</sup> , A - 'A', B - 'B', C - '2xB'	
G12	Number of wires	2, 3, 4 <sup>(7)</sup>	
G14	Tip shape	X - standard closed, N - narrowed <sup>(6)</sup> , P - pitted <sup>(6)</sup>	
G15	Connector	X - none, C3 - 4-pin male plug-in connector ø8 (for H5700 thermometer only)	
#1	Options	X - none, OV - vibration proof (MgO or Silicone filled) <sup>(6)</sup> , OS - cable protection SS spring (≈ 50 mm) <sup>(1)</sup> , OB - braid termination lead (only w/o connector), OP - electrochemically polished sheath surface <sup>(6)</sup>	

(1) Only for TSBL and TSBGL!  
 (2) Available only with MI sheath!  
 (3) Only for TSB and TSBGL!  
 (4) Only for TSBG and TSBGL!  
 (5) For non-Pt sensors  
 (6) Only for non-MI (regular) sheath types!  
 (7) Contact COMECO!

T/C BAYONET CABLE PROBE Sheath - stainless steel (see table notes) Cable - see table notes	Bx (TSBx)	SENSITIVE ELEMENT	CABLE TYPE	TEMPERATURE RANGE	DIMENSIONS																																	
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	<p><b>Sheath material:</b> 1.4301 (M1), 1.4541 (M2), 1.4571 (M3), 1.4404 (M9), 1.4841 (M5), 2.4816 (M8)</p> <p><b>Cable type:</b> - GLGLP(V) (glass fiber w/ steel braid, max. 400 °C ambient temperature) - SLSL or TSL (silicone, max. 250 °C ambient temperature) - TT (Teflon®, max. 250 °C ambient temperature) - YY (PVC, max. 100 °C ambient temperature) - UU or YU (PUR, max. 80 °C ambient temperature) - SFSF (mineral fiber, max. 1000 °C ambient temperature)</p> <p><b>Applicable cables:</b></p> <table border="1"> <thead> <tr> <th>Probe design</th> <th>B, BG</th> <th>BL, BGL</th> </tr> </thead> <tbody> <tr> <td>Temp. range</td> <td></td> <td></td> </tr> <tr> <td>T7, T9</td> <td>no PUR, no PVC</td> <td>all</td> </tr> <tr> <td>T1, T8</td> <td>GLGLP, SFSF</td> <td>no PUR, no PVC</td> </tr> <tr> <td>T3, T4</td> <td>SFSF</td> <td>GLGLP, SFSF</td> </tr> </tbody> </table> <p><b>Tip shape:</b> standard (isolated), grounded, open-tube, exposed (see Appendix - Tip shapes)</p> <p><b>Accuracy class:</b> '1' or '2' (see Appendix - T/C Tolerance)</p> <p><b>Cable connector:</b> 4-pin (C3), 'T/C standard' (C5) or 'T/C miniature' (C6) (see Appendix - Connectors)</p> <p><b>Bayonet:</b> Ø13x1... Ø20x1; aluminum, brass, or stainless steel</p> <p><b>Available threads and HEX sizes:</b></p> <table border="1"> <thead> <tr> <th>G</th> <th>M8</th> <th>M10 1/8"</th> <th>M12 1/4"</th> <th>M14</th> <th>M16 3/8"</th> <th>M18</th> <th>M20 1/2"</th> </tr> </thead> <tbody> <tr> <td>SW</td> <td>10</td> <td>12(13)</td> <td>14</td> <td>17</td> <td>19</td> <td>22</td> <td>24</td> </tr> </tbody> </table>							Probe design	B, BG	BL, BGL	Temp. range			T7, T9	no PUR, no PVC	all	T1, T8	GLGLP, SFSF	no PUR, no PVC	T3, T4	SFSF	GLGLP, SFSF	G	M8	M10 1/8"	M12 1/4"	M14	M16 3/8"	M18	M20 1/2"	SW	10	12(13)	14	17	19	22	24
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**Ordering code** TSB(L,G,GL) - G2.G3.G4.G5'G5".G6.G8.G9.G10.G11.G14.G15 - #1

Code	Feature or option	Code values	
G2	Thermocouple	<b>J</b> - T/C type "J", <b>K</b> - T/C type "K", <b>T</b> - T/C type "T", <b>N</b> - MI T/C type "N" <sup>(1)</sup> , <b>E</b> - MI T/C type "E" <sup>(1)</sup> , <b>T</b> - MI T/C type "T" <sup>(1)</sup>	
G3	Temperature range	<b>T1</b> - -50...400 °C, <b>T3</b> - 0...850 °C <sup>(5)</sup> , <b>T4</b> - 0...800 °C <sup>(5)</sup> , <b>T7</b> - 0...200 °C, <b>T8</b> - 0...400 °C, <b>T9</b> - -50...200 °C	
G4	Diameter 'd' [mm]	regular T/C	<b>4</b> <sup>(5)</sup> , <b>5</b> , <b>6</b> , <b>8</b>
		MI T/C <sup>(1)</sup>	<b>4.5</b> , <b>6</b> , <b>8</b> <sup>(5)</sup>
G5'	Bayonet size <sup>(2)</sup>	<b>13</b> - ø13x1, <b>14</b> - ø14x1, <b>15</b> - ø15x1, <b>17</b> - ø17x1, <b>20</b> - ø20x1, <b>Z</b> - other (specify!)	
G5"	Bayonet material <sup>(2)</sup>	<b>AL</b> - aluminum, <b>BR</b> - brass, <b>SS</b> - stainless steel	
G6	Probe length 'n' [mm]	<b>10...200</b>	
G8	Cable length 'k' [m] and type	<b>1GL...10GL</b> - glass fiber, <b>1SL...10SL</b> - silicone, <b>1TF...10TF</b> - Teflon®, <b>1PU...10PU</b> - polyurethane <sup>(5)</sup> , <b>1MF...10MF</b> - mineral fiber, <b>1PV...10PV</b> - PVC	
G9	Mounting connection <sup>(3)</sup>	<b>Q0</b> - M16x1.5, <b>Q1</b> - M18x1.5, <b>Q2</b> - M20x1.5, <b>Q3</b> - G3/8", <b>Q4</b> - G1/2", <b>Q7</b> - M12x1.5, <b>Q8</b> - M14x1.5, <b>Q10</b> - 1/2" NPT, <b>Q18</b> - G1/8", <b>Q19</b> - 1/8" NPT, <b>Q20</b> - M10x1, <b>Q23</b> - G1/4", <b>Q24</b> - 1/4" NPT, <b>Q26</b> - M8x1, <b>Q29</b> - M8x1.25, <b>Q30</b> - M10x1.5, <b>Q31</b> - M6x1, <b>Uxx</b> - union nut (xx - same as for Qxx)	
G10	Sheath material (wetted parts)	regular T/C	<b>M1</b> - 1.4301, <b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M9</b> - 1.4404
		MI T/C <sup>(1)</sup>	<b>M1</b> - 1.4301, <b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M5</b> - 1.4841, <b>M8</b> - 2.4816 (Inconel 600), <b>M9</b> - 1.4404
G11	Accuracy class	<b>1</b> - '1' <sup>(5)</sup> , <b>2</b> - '2'	
G14	Tip shape (hot junction)	<b>X</b> - standard (isolated from sheath), <b>G</b> - grounded, <b>E</b> - exposed hot junction, <b>O</b> - open-tube design	
G15	Connector	<b>X</b> - none, <b>C3</b> - 4-pin male plug-in connector ø8 (for H5700 thermometer only), <b>C5</b> - T/C connector, <b>C6</b> - miniature T/C connector	
#1	Options	<b>X</b> - none, <b>OV</b> - vibration proof (MgO or Silicone filled) <sup>(4)</sup> , <b>OS</b> - cable protection SS spring (≈ 50 mm) <sup>(1)</sup> , <b>OB</b> - braid termination lead (only w/o connector), <b>OP</b> - electrochemically polished sheath surface <sup>(4)</sup>	

<sup>(1)</sup> Only for TSBL and TSBGL!

<sup>(2)</sup> Only for TSB and TSBL!

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<sup>(5)</sup> Contact COMECO!