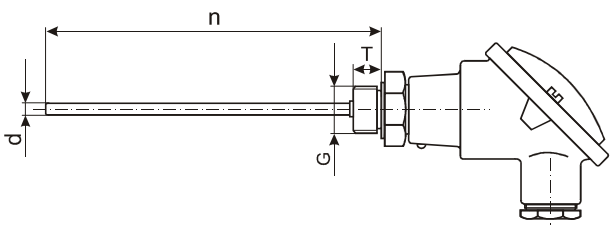
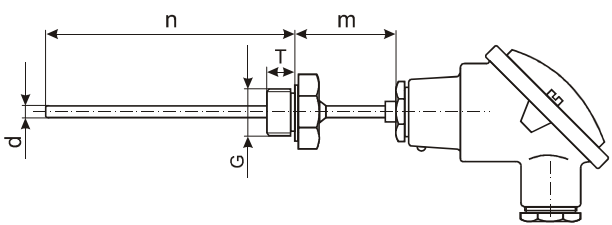
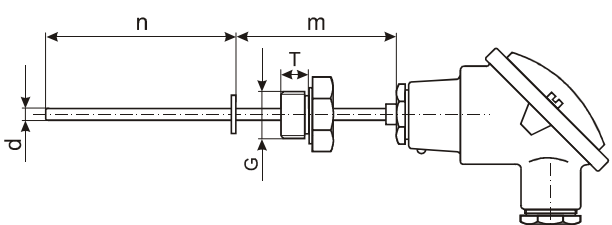
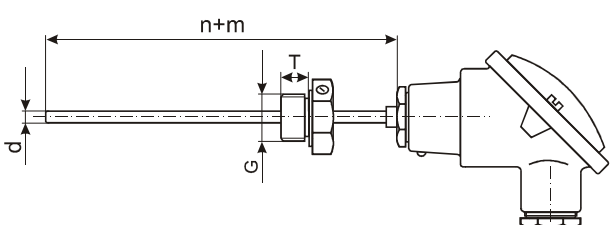
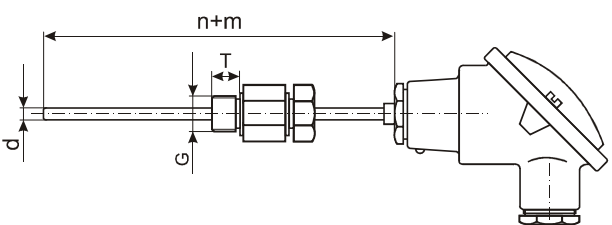


(MI) RTD PROBE WITH PROTECTION HEAD - FOR IN-HEAD TRANSMITTER **	TSCx TSOCx	SENSITIVE ELEMENT	TEMPERATURE RANGE	DIMENSIONS																																						
				n [mm]	d [mm]	wires																																				
Sheath - stainless steel (see Appendix - Sheath materials) Head - aluminum, stainless steel, iron, or plastic (see Appendix - Protection heads)																																										
<b>DESIGN WITHOUT EXTENSION (TS(O)C)</b>																																										
																																										
<b>EXTENDED DESIGN WITH WELDED CONNECTION (TS(O)C1)</b>																																										
																																										
<b>EXTENDED DESIGN WITH MOVABLE CONNECTION (TS(O)C2)</b>																																										
																																										
<b>DESIGN WITH ADJUSTABLE CONNECTION (TS(O)C3)</b>																																										
																																										
<b>DESIGN WITH GLAND-TYPE CONNECTION (TS(O)C4)</b>																																										
																																										
		<b>Regular Design</b>																																								
1 x Pt (RB,RD,RF,RG)	T9	-50...200 °C	50...500	4	2, 3*																																					
	T1	-50...400 °C		5																																						
	T24	-50...500 °C	50...1500	6	2, 3, 4*																																					
	T11*	-50...600 °C		8, 10, 12, 14, 16, 20	2, 3, 4																																					
	T2*	-200...600 °C	50...3000		6*, 8, 10	2x2(3)*																																				
	T4*	0...800 °C		12, 14, 16, 20	2x2(3), 3x2																																					
T26	-200...150 °C																																									
T22	-200...200 °C																																									
1 x Cu (RH, RK)	T9	-50...200 °C	50...1500	6	2, 3, 4*																																					
			50...3000	8, 10, 12, 14, 16, 20																																						
2 x Cu (RH, RK)	T9	-50...200 °C	50...3000	8, 10	2x2																																					
				12, 14, 16, 20	2x2(3)*																																					
1 x PTC (RP, RQ)	T12	-50...100 °C	50...1500	6	2, 3																																					
			50...3000	8, 10, 12, 14																																						
2 x PTC (RP, RQ)			50...3000	8, 10, 12, 14	2x2																																					
		<b>MI Design</b>																																								
1 x Pt (RB,RD,RF,RG)	T9	-50...200 °C	50...50000	3*	2, 3*																																					
	T1	-50...400 °C		4.5	2, 3*																																					
	T24	-50...500 °C		6	2, 3, 4*																																					
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2 x Pt (RB,RD,RF,RG)	T2*	-200...600 °C	50...50000	6, 8	2x2, 2x3*																																					
	T4*	0...800 °C																																								
	T22	-200...200 °C																																								
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<b>Process connection 'G' (nipple or union nut):</b> - M16x1.5(Q0), M18x1.5(Q1), M20x1.5(Q2), M27x2(Q5), M33x2(Q25) - 3/8"(Q3/Q9), 1/2"(Q4/Q10), 3/4"(Q6/Q11), 1"(Q12/Q15) - welded or adjustable flange - other - w/o mounting appliances																																										
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<b>Wire material:</b> Cu, Ni, or Ag																																										
<b>Accuracy class:</b> 'A', 'B', or '2xB' (see Appendix - RTD Tolerance)																																										
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** Order transmitter separately!!!																																										

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**Ordering code** TS\*(1,2,3,4) - (MI -) G0.G1G2.G3.G4.G6.G7.G9'9".G10.G11.G12.G13.G14 - #1.#2

Code	Feature or option	Code values
*	Base model variant	<b>C</b> - standard (w/ terminal block), <b>OC</b> - prepared for in-head transmitter (w/o terminal block)
G0	Protection head	<b>B</b> - type "B", <b>CC</b> - type "CC", <b>CS</b> - type "CS" <sup>(11)</sup> , <b>D</b> - type "D", <b>DH</b> - type "DH", <b>DHW</b> - type "DHW", <b>DW</b> - type "DW", <b>E</b> - type "E", <b>EG</b> - type "EG", <b>EGS</b> - type "EGS", <b>EGSS</b> - type "EGSS" <sup>(11)</sup> , <b>EGW</b> - type "EGW", <b>EGWSS</b> - type "EGWSS" <sup>(11)</sup> , <b>ES</b> - type "ES" <sup>(11)</sup> , <b>G</b> - type "G", <b>MA</b> - type "MA", <b>MB</b> - type "MB", <b>N</b> - type "N"
G1	Number of RTD sensors	<b>1, 2, or 3</b> <sup>(11)</sup>
G2	Sensor	<b>RB</b> - Pt50, <b>RD</b> - Pt100, <b>RF</b> - Pt500, <b>RG</b> - Pt1000, <b>RH</b> - Cu50, <b>RK</b> - Cu100, <b>RP</b> - PTC 1k, <b>RQ</b> - PTC 2k
G3	Temperature range	<b>T1</b> - -50...400 °C, <b>T2</b> - -200...600 °C, <b>T4</b> - 0...800 °C, <b>T9</b> - -50...200 °C, <b>T11</b> - -50...600 °C, <b>T22</b> - -200...200 °C, <b>T24</b> - -50...500 °C, <b>T26</b> - -200...150 °C
G4	Diameter 'd' [mm]	regular design <b>4, 5, 6, 8, 10, 12, 14, 16, 20</b>
		MI design <b>3</b> <sup>(11)</sup> , <b>4.5, 6, 8</b>
G6	Probe length 'n' [mm] <sup>(1)</sup>	<b>50...50000</b> (see table overleaf)
G7	Probe length 'm' [mm] <sup>(2)</sup>	<b>0...1500</b>
G9'	Mounting connection	<b>X</b> - no mounting appliances , <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>Q5</b> - M27x2, <b>Q6</b> - G3/4", <b>Q9</b> - 3/8" NPT, <b>Q10</b> - 1/2" NPT, <b>Q11</b> - 3/4" NPT, <b>Q12</b> - G1", <b>Q15</b> - 1" NPT, <b>Q25</b> - M33x2, <b>Uxx</b> - union nut (xx - same as for Qxx), <b>F</b> - flange (specify!), <b>Z</b> - other connection (specify!)
G9"	Compression fitting ferrule <sup>(4)</sup>	<b>BR</b> - brass, <b>GR</b> - graphite, <b>SS</b> - stainless steel, <b>TF</b> - Teflon®
G10	Sheath material (wetted parts)	regular design <b>M1</b> - 1.4301, <b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M9</b> - 1.4401 (1.4404), <b>M15</b> - 1.4362 <sup>(11)</sup>
		MI design <b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M9</b> - 1.4401 (1.4404)
G11	Accuracy class	<b>X</b> - none <sup>(5)</sup> , <b>A</b> - 'A', <b>B</b> - 'B', <b>C</b> - '2xB'
G12	Number of wires	<b>2, 3, 4</b> <sup>(11)</sup>
G13	Wire material <sup>(6)</sup>	<b>CU</b> - copper <sup>(7)</sup> , <b>NI</b> - nickel, <b>AG</b> - silver <sup>(8)</sup>
G14	Tip shape	<b>X</b> - standard closed, <b>N</b> - narrowed <sup>(8)</sup> , <b>P</b> - pitted <sup>(8)</sup>
#1	Options	<b>X</b> - none, <b>OV</b> - vibration proof (spring terminals, MgO or Silicone filled, secured screws) , <b>OT</b> - thermal isolation <sup>(3)</sup> , <b>OP</b> - electrochemically polished sheath surface <sup>(8)</sup>
#2	Incorporated devices	<b>X</b> - none, <b>T</b> - in-head transmitter <sup>(9)</sup> , <b>A</b> - local indicator <sup>(10)</sup>

<sup>(1)</sup> 'n+m' for TS(O)C3 and TS(O)C4!

<sup>(2)</sup> Only for TS(O)C1 and TS(O)C2!

<sup>(3)</sup> Only for TS(O)C!

<sup>(4)</sup> Only for TS(O)C4!

<sup>(5)</sup> For non-Pt sensors

<sup>(6)</sup> Only for Pt sensors!

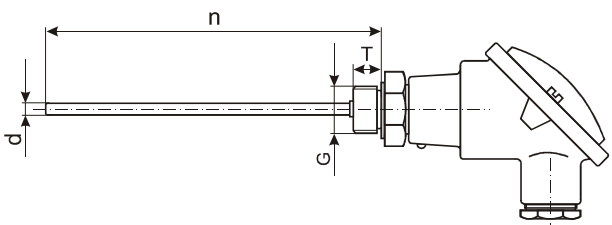
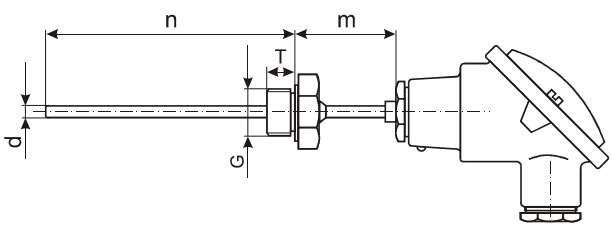
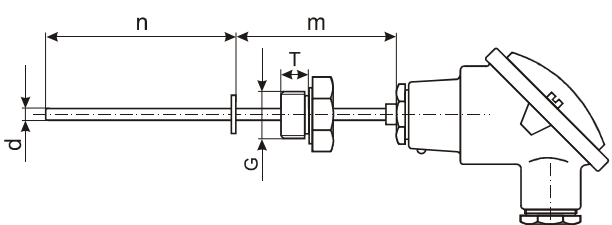
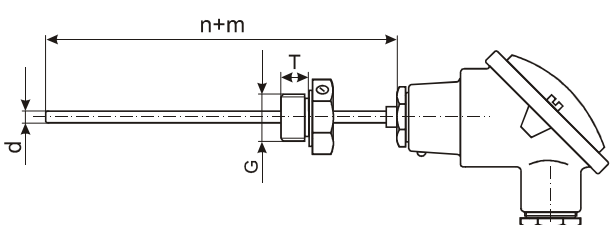
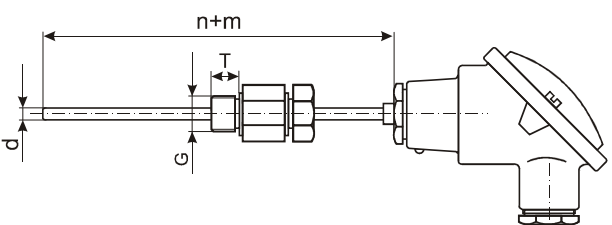
<sup>(7)</sup> Not applicable to non-MI (regular) RTDs for above 500 °C!

<sup>(8)</sup> Only for non-MI (regular) design!

<sup>(9)</sup> Only for variant 'OC'! See transmitter datasheets and order separately!

<sup>(10)</sup> With windowed head only! See indicator datasheets and order separately!

<sup>(11)</sup> Contact COMECO!

(MI) T/C PROBE WITH PROTECTION HEAD - FOR IN-HEAD TRANSMITTER **	TSCx TSOCx	SENSITIVE ELEMENT	TEMPERATURE RANGE	DIMENSIONS																																					
				n [mm]	d [mm]	wires																																			
<p>Sheath - stainless steel (see Appendix - Sheath materials) Head - aluminum, stainless steel, iron, or plastic (see Appendix - Protection heads)</p>																																									
<p><b>DESIGN WITHOUT EXTENSION (TS(O)C)</b></p> 		Regular Design																																							
1(2) x J	T4	0...800 °C	50...1500	6	2																																				
1(2) x L			50...3000	8, 10, 12, 14, 16, 20, 22	(2x2)																																				
1(2) x K	T3 T16 T6*	0...850 °C 0...1100 °C 0...1150 °C	50...1500 50...3000	6 8, 10, 12, 14, 16, 20, 22	2 (2x2)																																				
1(2) x E	T3 T13	0...850 °C 0...1000 °C	50...1500 50...3000	6 8, 10, 12, 14, 16, 20, 22	2 (2x2)																																				
1(2) x S	T16	0...1100 °C	50...1500	6	2																																				
1(2) x R	T6*	0...1150 °C	50...3000	8, 10, 12, 14, 16, 20, 22	(2x2)																																				
<p><b>EXTENDED DESIGN WITH WELDED CONNECTION (TS(O)C1)</b></p> 		MI Design																																							
1 x J	T4	0...800 °C	50...50000	3, 4.5, 6, 8, 10*	2																																				
2 x J					2x2																																				
1 x T	T8	0...400 °C	50...50000	3, 4.5, 6, 8, 10*	2																																				
2 x T					2x2																																				
1 x K	T3 T16	0...850 °C 0...1100 °C	50...50000	3, 4.5, 6, 8, 10*	2																																				
1 x N, 1 x E																																									
2 x K	T6*	0...1150 °C 0...1250 °C	50...50000	3, 4.5, 6, 8, 10*	2x2																																				
2 x N, 2 x E																																									
2 x S	T16	0...1100 °C	50...10000	3, 4.5, 6	2x2																																				
2 x R	T6*	0...1150 °C																																							
<p><b>EXTENDED DESIGN WITH MOVABLE CONNECTION (TS(O)C2)</b></p> 		<p><b>Protection head:</b> B, MA, MB, G, N, Cx, Dx, Ex (see Appendix - Protection Heads)</p> <p><b>Process connection 'G' (nipple or union nut):</b> - M16x1.5(Q0), M18x1.5(Q1), M20x1.5(Q2), M27x2(Q5), M33x2(Q25) - 3/8"(Q3/Q9), 1/2"(Q4/Q10), 3/4"(Q6/Q11), 1"(Q12/Q15) - welded or adjustable flange - other - w/o mounting appliances</p> <p><b>Thread length:</b> - cylindrical thread: T = 15 mm - NPT thread: according to ANSI B1.20.1</p> <p><b>Thermal isolation between nipple and metal head: (for TS(O)C only)</b></p> <table border="1"> <tr> <th>Protection head</th> <th>Length 'n'</th> <th>Maximum temperature</th> <th>Insulation material</th> </tr> <tr> <td>MA, MB</td> <td>up to 50 mm</td> <td>200 °C</td> <td>POM</td> </tr> <tr> <td>B</td> <td>up to 100 mm</td> <td>400 °C</td> <td>Teflon®</td> </tr> <tr> <td>other</td> <td>up to 150 mm</td> <td></td> <td></td> </tr> </table>					Protection head	Length 'n'	Maximum temperature	Insulation material	MA, MB	up to 50 mm	200 °C	POM	B	up to 100 mm	400 °C	Teflon®	other	up to 150 mm																					
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<p><b>DESIGN WITH ADJUSTABLE CONNECTION (TS(O)C3)</b></p> 		<p><b>Extension length:</b> m = 0...1500 mm</p> <p><b>Extension diameter: (for TS(O)C1 and TS(O)C2 only, [mm])</b></p> <table border="1"> <tr> <th rowspan="2">Ext. length 'm'</th> <th colspan="5">Probe diameter 'd'</th> </tr> <tr> <th>3 mm</th> <th>4.5, 6 mm</th> <th>8 mm</th> <th>10 mm</th> <th>10+ mm</th> </tr> <tr> <td>up to 50 mm</td> <td>6</td> <td>d</td> <td>d</td> <td>d</td> <td>d</td> </tr> <tr> <td>50...150 mm</td> <td>8</td> <td>8</td> <td>d</td> <td>d</td> <td>d</td> </tr> <tr> <td>150...500 mm</td> <td>10</td> <td>10</td> <td>10</td> <td>d</td> <td>d</td> </tr> <tr> <td>500+ mm</td> <td>14</td> <td>14</td> <td>14</td> <td>14</td> <td>d</td> </tr> </table>					Ext. length 'm'	Probe diameter 'd'					3 mm	4.5, 6 mm	8 mm	10 mm	10+ mm	up to 50 mm	6	d	d	d	d	50...150 mm	8	8	d	d	d	150...500 mm	10	10	10	d	d	500+ mm	14	14	14	14	d
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<p><b>DESIGN WITH GLAND-TYPE CONNECTION (TS(O)C4)</b></p> 		<p><b>Tip shape (hot junction design):</b> standard (isolated), grounded, open-tube, exposed (see Appendix - Tip Shapes)</p> <p><b>Process pressure:</b></p> <table border="1"> <tr> <th>Probe design</th> <th>TS(O)C, TS(O)C1</th> <th>TS(O)C2</th> <th>TS(O)C4</th> <th>TS(O)C3</th> </tr> <tr> <td>Max. pressure *</td> <td>25 bar</td> <td>16 bar</td> <td>6 bar</td> <td>0 bar</td> </tr> </table> <p><b>Sheath material:</b> 1.4401/1.4404(M9), 1.4541(M2), 1.4571(M3), 1.4762/1.4749(M4), 1.4841(M5), 1.4845(M6), 1.4876(M7), 2.4816(M8), 1.4362(M15)</p> <p><b>MI sheath material:</b> 1.4401/1.4404(M9), 1.4541(M2), 1.4571(M3), 1.4762/1.4749(M4), 1.4841(M5), 1.4876(M7), 2.4816(M8), Microbell®(M10)</p> <p><b>Accuracy class:</b> '1' or '2' (see Appendix - T/C Tolerance)</p>					Probe design	TS(O)C, TS(O)C1	TS(O)C2	TS(O)C4	TS(O)C3	Max. pressure *	25 bar	16 bar	6 bar	0 bar																									
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		<p>* Please contact COMECO! ** Order transmitter separately!!!</p>																																							

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**Ordering code** TS\*(1,2,3,4) - (MI -) G0.G1G2.G3.G4.G6.G7.G9'9".G10.G11.G14 - #1.#2

Code	Feature or option	Code values
*	Base model variant	<b>C</b> - standard (w/ terminal block), <b>OC</b> - prepared for in-head transmitter (w/o terminal block)
G0	Protection head	<b>B</b> - type "B", <b>CC</b> - type "CC", <b>CS</b> - type "CS" <sup>(9)</sup> , <b>D</b> - type "D", <b>DH</b> - type "DH", <b>DHW</b> - type "DHW", <b>DW</b> - type "DW", <b>E</b> - type "E", <b>EG</b> - type "EG", <b>EGS</b> - type "EGS" <sup>(9)</sup> , <b>EGSS</b> - type "EGSS" <sup>(9)</sup> , <b>EGW</b> - type "EGW", <b>EGWSS</b> - type "EGWSS" <sup>(9)</sup> , <b>ES</b> - type "ES" <sup>(9)</sup> , <b>G</b> - type "G", <b>MA</b> - type "MA", <b>MB</b> - type "MB", <b>N</b> - type "N"
G1	Number of thermocouples	<b>1</b> or <b>2</b>
G2	Thermocouple	regular design <b>E</b> - type "E", <b>J</b> - type "J", <b>K</b> - type "K", <b>L</b> - type "L", <b>R</b> - type "R", <b>S</b> - type "S"
		MI design <b>E</b> - type "E", <b>J</b> - type "J", <b>K</b> - type "K", <b>N</b> - type "N", <b>R</b> - type "R", <b>S</b> - type "S", <b>T</b> - type "T"
G3	Temperature range	<b>T3</b> - 0...850 °C, <b>T4</b> - 0...800 °C, <b>T6</b> - 0...1200 °C <sup>(9)</sup> , <b>T13</b> - 0...1000 °C, <b>T16</b> - 0...1100 °C
G4	Diameter 'd' [mm]	regular design <b>6, 8, 10, 12, 14, 16, 20</b> <sup>(1)</sup> , <b>22</b> <sup>(1)</sup>
		MI design <b>3, 4.5, 6, 8, 10</b>
G6	Probe length 'n' [mm] <sup>(2)</sup>	<b>50...50000</b> (see table overleaf)
G7	Probe length 'm' [mm] <sup>(3)</sup>	<b>0...1500</b>
G9'	Mounting connection	<b>X</b> - no mounting appliances <sup>(4)</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>Q5</b> - M27x2, <b>Q6</b> - G3/4", <b>Q9</b> - 3/8" NPT, <b>Q10</b> - 1/2" NPT, <b>Q11</b> - 3/4" NPT, <b>Q12</b> - G1", <b>Q15</b> - 1" NPT, <b>Q25</b> - M33x2, <b>Uxx</b> - union nut (xx - same as for Qxx), <b>F</b> - flange (specify!), <b>Z</b> - other connection (specify!)
G9"	Compression fitting ferrule <sup>(5)</sup>	<b>BR</b> - brass, <b>GR</b> - graphite, <b>SS</b> - stainless steel, <b>TF</b> - Teflon®
G10	Sheath material (wetted parts)	regular design <b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M4</b> - 1.4762 (1.4749), <b>M5</b> - 1.4841, <b>M6</b> - 1.4845, <b>M7</b> - 1.4876, <b>M8</b> - 2.4816, <b>M9</b> - 1.4401 (1.4404), <b>M15</b> - 1.4362
		MI design <b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M4</b> - 1.4762 (1.4749), <b>M5</b> - 1.4841, <b>M7</b> - 1.4876, <b>M8</b> - 2.4816, <b>M9</b> - 1.4401 (1.4404), <b>M10</b> - Microbell®
G11	Accuracy class	<b>1</b> - '1' <sup>(9)</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
#1	Options	<b>X</b> - none, <b>OV</b> - vibration proof (spring terminals <sup>(9)</sup> , secured screws), <b>OT</b> - thermal isolation <sup>(4)</sup> , <b>OP</b> - electrochemically polished sheath surface <sup>(6)</sup>
#2	Incorporated devices	<b>X</b> - none, <b>T</b> - in-head transmitter <sup>(7)</sup> , <b>A</b> - local indicator <sup>(8)</sup>

<sup>(1)</sup> d = 21.3 mm for sheath materials 'M5' and 'M6'

<sup>(2)</sup> 'n+m' for TS(O)C3 and TS(O)C4!

<sup>(3)</sup> Only for TS(O)C1 and TS(O)C2!

<sup>(4)</sup> Only for TS(O)C!

<sup>(5)</sup> Only for TS(O)C4!

<sup>(6)</sup> Only for non-MI (regular) design!

<sup>(7)</sup> Only for variant 'OC'! See transmitter datasheets and order separately!

<sup>(8)</sup> With windowed head only! See indicator datasheets and order separately!

<sup>(9)</sup> Contact COMECO!