

## Termocuplu tip TSSM & TSSB

T/C REPLACEABLE INSERT  (PREPARED FOR IN-HEAD TRANSMITTER)** <small>Sheath - stainless steel (see Appendix - Sheath materials) Terminal base - Al<sub>2</sub>O<sub>3</sub>. Terminals - Ni-plated brass</small>	Sx (TSSx)	SENSITIVE ELEMENT	TEMPERATURE RANGE	DIMENSIONS		
	OSx (TSOSx)			n [mm]	d [mm]	wires
<b>DESIGN WITH TERMINAL BLOCK TYPE "M" (SM)</b>						
		<b>Regular Thermocouple Design</b>				
		1 x J; 1 x L	T4	0...800 °C	50...1500	6
		2 x J; 2 x L			8,10	2x2
		1 x K	T3	0...850 °C	50...1500	6
		2 x K	T6*	0...1150 °C	8,10	2x2
		1 x E	T3	0...850 °C	50...1500	6
		2 x E	T13	0...1000 °C	8,10	2x2
		1 x S	T16	0...1100 °C	50...1500	6
		1 x R	T6*	0...1150 °C	8,10	2
		2 x S	T16	0...1100 °C	50...3000	8,10
		2 x R	T6*	0...1150 °C	8,10	2x2
		<b>MI Thermocouple Design</b>				
		1 x J	T4	0...800 °C	50...50000	2
		2 x J			3, 4, 5, 6, 8	2x2
		1 x K	T3	0...850 °C	50...50000	2
		1 x N, 1 x E	T16	0...1100 °C	50...50000	3, 4, 5, 6, 8
		2 x K	T6*	0...1150 °C	50...50000	2x2
		2 x N, 2 x E	T6*	0...1250 °C	50...10000	3, 4, 5, 6
		2 x S	T16	0...1100 °C	50...10000	2x2
		2 x R	T6*	0...1150 °C	50...10000	3, 4, 5, 6
<p><b>Suitable protection heads:</b> (see Appendix - Protection heads)                      - TSSM: heads with 20 mm mounting distance                      - TSSB: heads with 33 mm mounting distance</p> <p><b>Fixing to protection head:</b>                      direct (default) or springing ('OS' option)</p> <p><b>Tip shape (hot junction design):</b>                      standard (isolated), grounded, open-tube, exposed (see Appendix - Tip shapes)</p> <p><b>Sheath material:</b>                      1.4404(M9), 1.4541(M2), 1.4571(M3), 1.4762(M4), 1.4841(M5), 1.4845(M6), 1.4876(M7), 2.4816(M8), 1.4362 (M15)</p> <p><b>MI sheath material:</b>                      1.4404(M9), 1.4541(M2), 1.4571(M3), 1.4762(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>						
<p>* Please contact                      ** No transmitter mounted!</p>						

**Ordering code** TS\*(B,M) - G1G2.G3.G4.G6.G10.G11.G12.G13.G14 - #1

Code	Feature or option	Code values	
*	Base model variant	<b>S</b> - standard (w/ terminal block), <b>OS</b> - prepared for in-head transmitter (w/o terminal block)	
G1	Number of thermocouples	<b>1</b> or <b>2</b>	
G2	Thermocouple	<b>J</b> - type "J", <b>K</b> - type "K", <b>N</b> - type "N", <b>E</b> - type "E", <b>L</b> - type "L", <b>S</b> - type "S", <b>R</b> - type "R"	
G3	Temperature range	<b>T3</b> - 0...850 °C, <b>T4</b> - 0...800 °C, <b>T6</b> - 0...1200 °C <sup>(4)</sup> , <b>T13</b> - 0...1000 °C, <b>T16</b> - 0...1100 °C	
G4	Diameter 'd' [mm]	regular T/C	<b>6, 8, 10</b>
		MI T/C	<b>3, 4, 5, 6, 8</b>
G6	Insert length 'n' [mm] <sup>(1)</sup>	<b>50...50000</b> (see table overleaf)	
G10	Sheath material	regular T/C	<b>M2</b> - 1.4541, <b>M3</b> - 1.4571, <b>M4</b> - 1.4762, <b>M5</b> - 1.4841, <b>M6</b> - 1.4845, <b>M7</b> - 1.4876, <b>M8</b> - 2.4816, <b>M9</b> - 1.4404, <b>M15</b> - 1.4362
		MI T/C	<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 (Incolloy 800), <b>M8</b> - 2.4816 (Inconel 600), <b>M9</b> - 1.4404, <b>M10</b> - Microbell®
G11	Accuracy class	<b>1</b> - '1' <sup>(4)</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 (secured screws) <sup>(2,3)</sup> , <b>OS</b> - spring-fixed terminal block, <b>OP</b> - electrochemically polished sheath surface <sup>(2)</sup>	

<sup>(1)</sup> This length does not coincide with the probe immersion length!

<sup>(2)</sup> Only for non-MI (regular) sheath types!

<sup>(3)</sup> Requires 'OS' option!

<sup>(4)</sup> Contact