

HAND-HELD PROBE WITH CONNECTOR Sheath - see table Cable - see table notes Connector - see table notes	Hx (TSHx)	SENSITIVE ELEMENT	SHEATH MATERIAL	TEMPERATURE RANGE	DIMENSIONS	
					d [mm]	wires
DESIGN WITH PLASTIC HANDLE (H)						
<p>n = 200 ... 2 000 mm d ≤ 6 mm k = 1 ... 10 m</p>						
DESIGN WITH ROBUST METAL HANDLE (HN)						
<p>n = 200 ... 2 000 mm k = 1 ... 10 m</p>						
RTD Design						
1 x Pt (RB,RD,RF,RG)	M1, M2, M3, M9	T7 0...200 °C T8 0...400 °C T1* -50...400 °C	4, 5	2, 3*		
1 x Cu (RH, RK)		T7 0...200 °C	6	2, 3, 4*		
Regular Thermocouple Design						
1 x K, 1 x J, 1 x T	M2, M3, M9	T7 0...200 °C T8 0...400 °C	5, 6	2		
MI Thermocouple Design						
1 x J, 1 x T**	M2, M3, M8	T4 0...800 °C	1, 1.5, 2, 3, 4.5, 6, 8, 10	2		
	M9, M5		1, 1.5, 2, 3, 4.5, 6, 8	2		
	M4		6, 8	2		
	M10		3, 4.5, 6	2		
1 x K, 1 x N, 1 x E**	M2, M3	T3 0...850 °C	1, 1.5, 2, 3, 4.5, 6, 8, 10	2		
	M9		1, 1.5, 2, 3, 4.5, 6, 8	2		
	M7*	T16 0...1100 °C	3, 6, 10	2		
	M8		1, 1.5, 2, 3, 4.5, 6, 8, 10	2		
	M4		6, 8	2		
	M5		1.5, 3, 4.5, 6, 8	2		
M10	T6 0...1250 °C	3, 4.5, 6	2			
1 x S(R)	M8	T16 0...1100 °C	3, 4.5, 6	2		
<p>Sheath material: 1.4301 (M1), 1.4541 (M2), 1.4571 (M3), 1.4762 (M4), 1.4841 (M5), 1.4876 (M7), 2.4816 (M8), 1.4404 (M9), Microbell® (M10)</p> <p>Cable type: - 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)</p> <p>Tip shape: - RTD: standard, narrowed, pitted - T/C: standard (isolated), grounded, open-tube, exposed (see Appendix - Tip shapes)</p> <p>Accuracy class: - RTD: 'A', 'B', or '2xB' - T/C: '1' or '2' (see Appendix - RTD or T/C Tolerance)</p> <p>Cable connector: 4-pin (C3), 'T/C standard' (C5) or 'T/C miniature' (C6) (see Appendix - Connectors)</p>						
<p>* Please contact COMECO! ** For T/C type "T": (T8) 0...400 °C; for T/C type "E": (T13) 0...1000 °C</p>						

Ordering code TSH(N) - G2.G3.G4.G6.G8.G10.G11.G12.G14.G15 - #1

Code	Feature or option	Code values	
G2	Sensor	RB - Pt50, RD - Pt100, RF - Pt500, RG - Pt1000, RH - Cu50, RK - Cu100, J - T/C type "J", K - T/C type "K", S - T/C type "S", R - T/C type "R" N - MI T/C type "N", E - MI T/C type "E", T - MI T/C type "T"	
G3	Temperature range	T1 - -50...400 °C, T3 - 0...850 °C, T4 - 0...800 °C, T6 - 0...1150(1250) °C, T7 - 0...200 °C, T8 - 0...400 °C, T16 - 0...1100 °C	
G4	Diameter 'd' [mm]	RTD	4, 5, 6, 8
		regular T/C	5, 6
		MI T/C	1, 1.5, 2, 3, 4.5, 6, 8, 10
G6	Probe length 'n' [mm]	200...2000	
G8	Cable length 'k' [m] and type	1GL...10GL - glass fiber, 1SL...10SL - silicone, 1TF...10TF - Teflon®	
G10	Sheath material (wetted parts)	RTD	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404
		regular T/C	M2 - 1.4541, M3 - 1.4571, M9 - 1.4404
		MI T/C	M2 - 1.4541, M3 - 1.4571, M4 - 1.4762 (1.4749), M5 - 1.4841, M7 - 1.4876 (Incolloy 800), M8 - 2.4816 (Inconel 600), M9 - 1.4404, M10 - Microbell®
G11	Accuracy class	RTD	X - none ⁽¹⁾ , A - 'A', B - 'B', C - '2xB'
		T/C	1 - '1' ⁽⁵⁾ , 2 - '2'
G12	Number of wires ⁽²⁾	2, 3, 4 ⁽⁵⁾	
G14	Tip shape	RTD	X - standard closed, N - narrowed, P - pitted
		T/C	X - standard (isolated from sheath) ⁽³⁾ , G - grounded, E - exposed hot junction ⁽³⁾ , O - open-tube design ⁽³⁾
G15	Connector	X - none, C3 - 4-pin male plug-in connector ø8 (for H5700 thermometer only), C5 - T/C connector, C6 - miniature T/C connector	
#1	Options	X - none, OV - vibration proof (MgO or Silicone filled) ⁽⁴⁾ , OB - braid termination lead (only w/o connector), OP - electrochemically polished sheath surface ⁽⁴⁾	

⁽¹⁾ For non-Pt sensors

⁽²⁾ Only for RTD sensors!

⁽³⁾ Not available when d = 1!

⁽⁴⁾ Only for non-MI (regular) sheath types!

⁽⁵⁾ Contact COMECO!