

# temperature probes

FINGER CABLE PROBE FOR PIPE-SURFACE MEASUREMENT		Y(BTSY)	SENSITIVE ELEMENT	CABLE TYPE	TEMPERATURE RANGE	WIRES
Sheath - stainless steel (see table notes) Cable - see table notes						
RTD Design						
<p>n = 20 ... 30 mm k = 1 ... 10 m</p>			1 x Pt (RB,RD,RF,RG)	SLSL, TSL, YY, UU, YU	T9 -50...200 °C T12 -50...100 °C	2, 3, 4*
			2 x Pt (RB,RD,RF,RG)	GLGL, TT	T7 0...200 °C T8 0...400 °C	2x2
			1 x PTC (RP, RQ)	SLSL, TSL, YY, UU, YU GLGL, TT	T12 -50...100 °C T19 0...100 °C	2, 3
		Thermocouple Design				
			1 x K, 1 x J, 1 x T	SLSL, TSL, YY, UU, YU GLGL, TT	T9 -50...200 °C T8 0...400 °C	2
		<p><b>Sheath material:</b> 1.4301 (M1), 1.4541 (M2), 1.4571 (M3), 1.4404 (M9), 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)</p> <p><b>Tip shape:</b> - RTD: standard - T/C: standard (isolated) or grounded (see Appendix - Tip shapes)</p> <p><b>Accuracy class:</b> - RTD: 'A', 'B', or '2xB' - T/C: '1' or '2' (see Appendix - RTD or 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>				
* Please contact BASI!						

## Ordering code BTSY - G1G2.G3.G6.G8.G10.G11.G12.G14.G15 - #1

Code	Feature or option	Code values	
G1	Number of sensors	1 or 2	
G2	Sensor	RB - Pt50, RD - Pt100, RF - Pt500, RG - Pt1000, RP - PTC 1k, RQ - PTC 2k, J - T/C type "J", K - T/C type "K", T - T/C type "T"	
G3	Temperature range	T7 - 0...200 °C, T8 - 0...400 °C, T9 - -50...200 °C, T12 - 50...100 °C, T19 - 0...100 °C	
G6	Probe length 'n' [mm]	20...30	
G8	Cable length 'k' [m] and type	1GL...10GL - glass fiber, 1SL...10SL - silicone, 1TF...10TF - Teflon®, 1PU...10PU - polyurethane <sup>(3)</sup> , 1PV...10PV - PVC	
G10	Sheath material (wetted parts)	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404	
G11	Accuracy class	RTD	X - none (for non Pt sensors), A - 'A', B - 'B', C - '2xB'
		T/C	1 - '1' <sup>(3)</sup> , 2 - '2'
G12	Number of wires <sup>(1)</sup>	2, 3, 4 <sup>(3)</sup>	
G14	Tip shape (hot junction) <sup>(2)</sup>	X - standard (isolated from sheath), G - grounded	
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), OS - cable protection SS spring (≈ 50 mm), OB - braid termination lead (only w/o connector), OP - electrochemically polished sheath surface	

<sup>(1)</sup> Only for RTD sensors!

<sup>(2)</sup> Only for thermocouples!

<sup>(3)</sup> Contact BASI!