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Temperature Probes (TF)



Probe Mountings (TA)



Pockets (SH)



for dial thermometers to DIN 16 204 with a bimetal sensing system

see data sheets 60.8001, 60.8002 and 60.8003

Temperature probes (TF)

TF 05 Temperature probe
with a plain support tube

Indication ranges

Diameter of temperature probe

Material of temperature probe and active
temperature probe dimension L,
see table (1) on page 2/6.

Probe mountings (TA)

see table (2), page 3/6 and 4/6.

Pockets (SH)

see table (3), page 5/6 and 6/6.

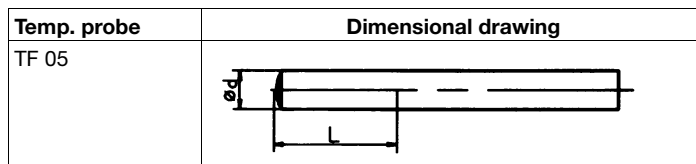
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Table 1 – Temperature probes (TF)



Active temperature probe dimension L (mm)															
Temperature probe series	Material	Temperature probe (mm) dia. Ø d		Indication range °C											
				-50 to +50	-40 to +60	-40 to +40	-30 to +170	-30 to +70	-30 to +50	-30 to +30	-20 to +120	-20 to +100	-20 to +80	-20 to +60	-20 to +40
608001/01-...	CuZn	10	●	45	45	60	45	45	60	65	65	40	45	60	65
	steel	10	○	45	45	60	45	45	60	65	65	40	45	60	65
	stainless steel	10	○	45	45	60	45	45	60	65	65	40	45	60	65
608001/18-...	CuZn	10	●	80	80	105	45	80	105	120	65	65	80	105	120
	steel	10	○	80	80	105	45	80	105	120	65	65	80	105	120
	stainless steel	10	○	80	80	105	45	80	105	120	65	65	80	105	120
608002/01-...	stainless steel	6	○	70	70	85	45	70	85	55	55	60	70	85	55
608003/01-...		10	●	45	45	60	45	45	60	65	65	40	45	60	65
608002/18-...	stainless steel	6	○	70	70	85	45	70	85	115	55	60	70	85	115
60800310-...		10	●	80	80	105	45	80	105	120	65	65	80	105	120

Active temperature probe dimension L (mm)															
Temperature probe series	Material	Temperature probe (mm) dia. Ø d		Indication range °C											
				0 to +60	0 to +80	0 to +100	0 to +120	0 to +160	0 to +200	0 to +250	0 to +300	0 to +350	0 to +400	0 to +500	
608001/01-...	CuZn	10	●	65	60	45	40	50	45	-	-	-	-	-	-
	steel	10	○	65	60	45	40	50	45	70	55	55	45	30	
	stainless steel	10	○	65	60	45	40	50	45	70	55	55	45	25	
608001/18-...	CuZn	10	●	120	105	80	65	50	45	-	-	-	-	-	
	steel	10	○	120	105	80	65	50	45	70	55	55	45	30	
	stainless steel	10	○	120	105	80	65	50	45	70	55	55	45	25	
608002/01-...	stainless steel	6	○	55	85	70	60	50	45	75	65	55	50	45	
608003/01-...		10	●	65	60	45	40	50	45	70	55	55	45	25	
608002/18-...	stainless steel	6	○	115	85	70	60	50	45	75	65	55	50	45	
608003/10-...		10	●	120	105	80	65	50	45	70	55	55	45	25	

● = standard, ○ = to special order

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Table 2 – Probe mountings (TA)

Mounting TA	Dimensional drawing	Description	Series	Screw fitting				Material			suitable for TF
				Pipe thread G				CuZn	steel	stainless steel 1.4571	
				3/8 "G	1/2 "G	3/4 "G	1/2" NPT				
010 TA 01	type 8001-01-50, 63, 80, 10 up to 200 °C 	immersion tube with shoulder	8001 up to 200 °C					●			TF 05
	type 8001-01-50, 63, 80, 10 from +250 °C type 8001-01-16, 8001-18-..., 8002-..., 8003-..., 8055-19-... 		8001 up to 200 °C 8011 from 250 °C 8002, 8003					●		●	
844 TA 02		immersion tube with union nut and loose nipple, screw-in spigot ¹	8001 up to 200 °C					●	○	○	
			8001 from 250 °C 8002, 8003 8001 8002, 8003	○	●	○		●	○	●	
845 TA 03		immersion tube with loose union nut	8001 up to 200 °C					●	○	○	
			8001 from 250 °C 8002, 8003	○	●	○		●	○	●	
841 TA 04		immersion tube with fixed hexagon, screw-in spigot ¹	8001 up to 200 °C						●	○	
			8001 from 250 °C 8002, 8003 8001 8002, 8003	○	●	○			●	○	
847 TA 06		immersion tube with sliding clamping thread (20 bar max.) screw-in spigot to DIN 3852, Form B	8001 up to 200 °C						●	○	
			8001 from 250 °C 8002, 8003		●	○				●	

● = standard, ○ = to special order

¹ screw-in spigot to DIN 3852, Form A

² diagram of 1/2" NPT, see page 4

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Table 2 – Probe mountings (TA)

Mounting	Dimensional drawing	Description	Series	Screw fitting				Material			suitable for TF
				Pipe thread G				CuZn	steel	stainless steel 1.4571	
				3/8"	1/2"	3/4"	1/2" NPT				
TA											
018 TA 08		immersion tube with sliding mounting plate (zinc-plated steel) and fixing screw	8001 up to 200 °C 8001 from 250 °C 8002, 8003								TF 05 ø d = 10 mm
1/2" NPT											
844 TA 02		immersion tube with union nut and loose screw-in nipple	8001 up to 200 °C 8001 from 250 °C 8002, 8003				○			●	
841 TA 04		immersion tube with fixed hexagon	8001 up to 200 °C 8001 from 250 °C 8002, 8003				○		●	○	TF 05

● = standard, ○ = to special order

Thread dimensions of probe mountings TA

Pipe thread G	a/f	a/f 2	L ₁	L ₂	L ₃	L ₁₃ TA01 ¹	L ₁₃ TA01 ²	L ₁₃ TA02	L ₁₃ TA03	L ₁₃ TA04 CuZn and steel	L ₁₃ TA04 stainless steel	L ₁₃ TA06	L ₁₃ TA08 ¹	L ₁₃ TA08 ²
3/8"	22	-	12	23	7.5	-	-	42.5	21	14	17	60	-	-
1/2"	27	17 or 19	14	25	10	-	-	44.5	18	14	18	60	-	-
3/4"	32	17	16	29	11	-	-	48.5	18	14	18	60	-	-
1/2" NPT	27	-	20	25	-	-	-	-	-	-	-	-	-	-
17 dia.	-	-	-	-	-	11.5	18.5	-	-	-	-	-	36.5	45

Please specify dimension S when ordering!

S (standard lengths in mm)	50	63	80	100	150	200	300	1000 max.
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Note active temperature probe dimension L, see Table 2.

¹ for type 8001-01-50, 63, 80, 10 up to +200 °C indication range
² for type 8001-01-50, 63, 80, 10 from +250 °C indication range
 8001-01-16,
 8001-18-63, 80, 10, 16
 8002-...-...
 8003-...-...

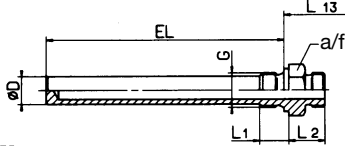
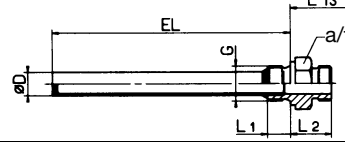
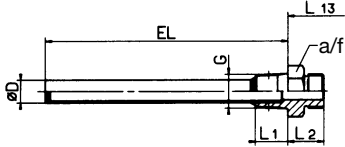
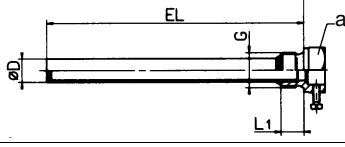
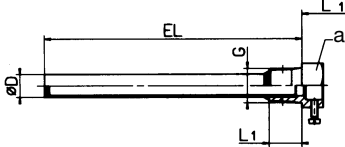
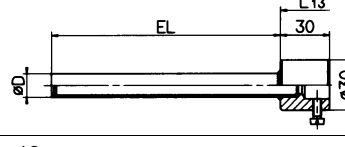
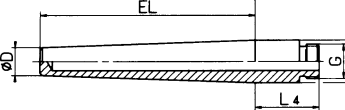
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Table 3 - Pockets (SH)

Pocket SH	Dimensional drawing	Description	Versions				Material			suitable for TA	
			Pipe thread G				CuZn ³	steel	stainless steel 1.4571		
			Ø D (SH)	Ø d (TF)	3/8"	1/2"				3/4"	1/2" NPT
SH 04	X ~ 10 mm 	screw-in pocket, machined from solid, to DIN 16179-CE ² for steel Mat. Ref. 1.5415	17	10	○	○			○	○	TA 03
SH 05	X ~ 4 mm 	screw-in pocket assembled, screw-in spigot ¹	12	10		○	○		○		TA 03
	X ~ 4 mm 	screw-in pocket, assembled	14	10				○		○	
SH 07	X ~ 1 mm 	screw-in pocket, assembled, with fixing screw, screw-in spigot ¹	12	10	○	○	○		○		TA 01
	X ~ 1 mm 	screw-in pocket, assembled, with fixing screw	14	10				○		○	
SH 09	X ~ 4 mm 	weld-in pocket, assembled, with fixing screw, welding shoulder for steel Mat. Ref. 1.5415	14	10					○	○	TA 01
SH 20	X ~ 10 mm 	tapered weld-in pocket, machined from solid, to DIN 16179-CN ² , for steel Mat. Ref. 1.5415	17	10		○	○		○	○	TA03

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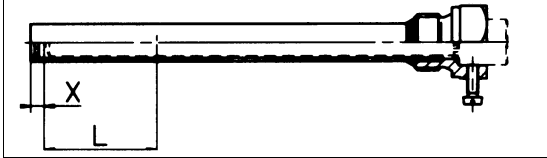
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Active temperature probe with TF 05,
see table (1) on page 2



Other pockets and threads on request

○ available

1 screw-in spigot to DIN 3852 Form A

2 under development

3 pockets in CuZn, max. permissible operating temperature +200 °C

Please specify dimension EL when ordering!

EL (standard lengths in mm)	50	63	80	100	150	200	300	1000 max.
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Thread dimensions of pockets SH

¹ for type 8001-01-50, 63, 80, 10 up to +200 °C indication range

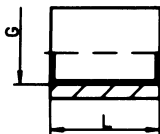
² for type 8001-01-50, 63, 80, 10 from +250 °C indication range

8001-01-16,
8001-18-63, 80, 10, 16
8002-...-..
8003-...-..

Accessories

weld-in socket St33, Mat. Ref. 10035
socket to DIN 2986

Pipe thread G	L
1/2"	34
3/4"	36



Pipe thread G	L	Sales No.
1/2"	34	60/00064390
3/4"	36	60/00064391