

Characteristic Thermocouple Type T

Measuring range: -40 °C to +350 °C

Accuracy class Thermocouple Type T according standard	
Class	Formula
Cl. 1	-40 °C to +133 °C: ±1,0 +133 °C to +350 °C: ±0,0004 t
Cl. 2	-40 °C to +133 °C: ±1,0 +133 °C to +350 °C: ±0,0075 t

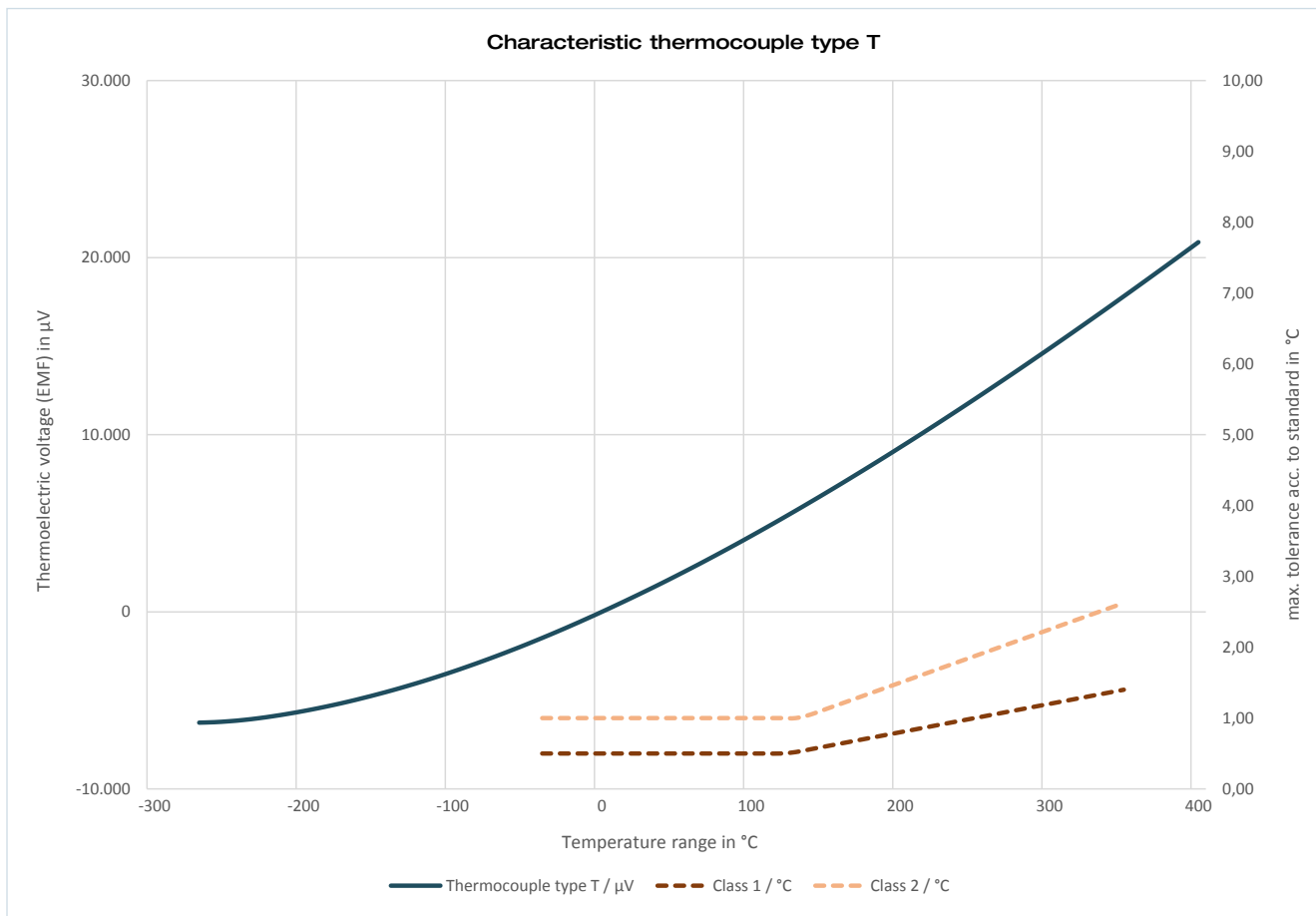
Example values		
Value @ T = 100 °C	Wert @ t = 200 °C	Value @ T = 300 °C
±1,5 °C	±0,8 °C	±1,20 °C
± 2,5 °C	±1,5 °C	±2,25 °C

Type T °C	EMF* in µV	max Tol. ± in °C**		Type T °C	EMF* in µV	max Tol. ± in °C**		Type T °C	EMF* in µV	max Tol. ± in °C**		Type T °C	EMF* in µV	max Tol. ± in °C**	
		Cl. 1	Cl. 2			Cl. 1	Cl. 2			Cl. 1	Cl. 2			Cl. 1	Cl. 2
-270	-6.258			-90	-3.089			90	3.814	0,5	1,0	270	13.139	1,1	2,0
-260	-6.232			-80	-2.788			100	4.279	0,5	1,0	280	13.709	1,1	2,1
-250	-6.180			-70	-2.476			110	4.750	0,5	1,0	290	14.283	1,2	2,2
-240	-6.105			-60	-2.153			120	5.228	0,5	1,0	300	14.862	1,2	2,3
-230	-6.007			-50	-1.819			130	5.714	0,5	1,0	310	15.445	1,2	2,3
-220	-5.888			-40	-1.475	0,5	1	140	6.206	0,6	1,1	320	16.032	1,3	2,4
-210	-5.753			-30	-1.121	0,5	1	150	6.704	0,6	1,1	330	16.624	1,3	2,5
-200	-5.603			-20	-757	0,5	1	160	7.209	0,6	1,2	340	17.219	1,4	2,6
-190	-5.439			-10	-383	0,5	1	170	7.720	0,7	1,3	350	17.819	1,4	2,6
-180	-5.261			0	0	0,5	1	180	8.237	0,7	1,4	360	18.422		
-170	-5.070			10	391	0,5	1,0	190	8.759	0,8	1,4	370	19.030		
-160	-4.865			20	790	0,5	1,0	200	9.288	0,8	1,5	380	19.641		
-150	-4.648			30	1.196	0,5	1,0	210	9.822	0,8	1,6	390	20.255		
-140	-4.419			40	1.612	0,5	1,0	220	10.362	0,9	1,7	400	20.872		
-130	-4.177			50	2.036	0,5	1,0	230	10.907	0,9	1,7				
-120	-3.923			60	2.468	0,5	1,0	240	11.458	1,0	1,8				
-110	-3.657			70	2.909	0,5	1,0	250	12.013	1,0	1,9				
-100	-3.379			80	3.358	0,5	1,0	260	12.574	1,0	2,0				

*Thermoelectric voltage (EMF) in µV
 **Maximum tolerance according DIN IEC 60584

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The standard specifies measuring ranges for thermocouples in which the respective measuring accuracy of the tolerance class applies. For use outside this specified measuring range, it is not possible to specify the measuring accuracy. If the thermocouple is operated outside the specified measuring range of its respective tolerance class, irreversible damage to the thermocouple may occur, which will result in a measurement deviation (even within the specified range). Use beyond the measuring range of the tolerance class represents misuse and leads to a loss of warranty.



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Please find our whole temperature probe and transmitter portfolio in our webshop at: www.testo-sensor.shop