



**Advice operation ranges and temperature tolerance for
-Thermocouple Type J, K, S and B acc. to DIN EN 60584
(cold end junction temperature 0°C)**

Type	Maximum working temperature in air (°C)	permissible temperature ΔT for classe 1	Temperature range	permissible temperature ΔT for classe 2	Temperature range
J	700 (short time 900)	$\pm 1,5 \text{ }^\circ\text{C}$	-40°C to 375°C	$\pm 2,5 \text{ }^\circ\text{C}$	-40°C to 333°C
		$\pm 0,004 \cdot t $	375°C to 750°C	$\pm 0,0075 \cdot t $	333°C to 750°C
K	1000 (short time 1200)	$\pm 1,5 \text{ }^\circ\text{C}$	-40°C to 375°C	$\pm 2,5 \text{ }^\circ\text{C}$	-40°C to 333°C
		$\pm 0,004 \cdot t $	375°C to 1000°C	$\pm 0,0075 \cdot t $	333°C to 1000°C
S	1300 (short time 1600)	$\pm 1 \text{ }^\circ\text{C}$	0°C to 1100°C	$\pm 1,5 \text{ }^\circ\text{C}$	0°C to 1100°C
		$\pm [1 + 0,003(t - 1100)] \text{ }^\circ\text{C}$	1100°C to 1600°C	$\pm 0,0025 \cdot t $	1100°C to 1600°C
B	1600 (short time 1800)	—	—	$\pm 0,0025 \cdot t $	600°C to 1700°C

