

# RTD Tables

## According to DIN EN 60751 for Class B and Class A

<b>Resistance vs Temperature Tables</b> <b>According to DIN EN 60751 for Class B and Class A</b> $\alpha = 0.00385$ per ITS-90	
$t \geq 0^\circ\text{C} :$ $R(t) = R_0 \cdot (1 + A \cdot t + B \cdot t^2)$ with $A = 3,9083 \cdot 10^{-3} \text{ }^\circ\text{C}^{-1}$ $B = -5,775 \cdot 10^{-7} \text{ }^\circ\text{C}^{-2}$ $R_0 = 100\Omega$	$t < 0^\circ\text{C} :$ $R(t) = R_0 \cdot [1 + A \cdot t + B \cdot t^2 + C \cdot (t - 100^\circ\text{C}) \cdot t^3]$ with $A = 3.9083 \cdot 10^{-3} \text{ }^\circ\text{C}^{-1}$ $B = -5.775 \cdot 10^{-7} \text{ }^\circ\text{C}^{-2}$ $C = -4.183 \cdot 10^{-12} \text{ }^\circ\text{C}^{-4}$ $R_0 = 100\Omega$
	<b>Class B:</b> $dt = \pm(0.3 + 0.005 \cdot  t )^\circ\text{C}$
	<b>Class A</b> $dt = \pm(0.15 + 0.002 \cdot  t )^\circ\text{C}$



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