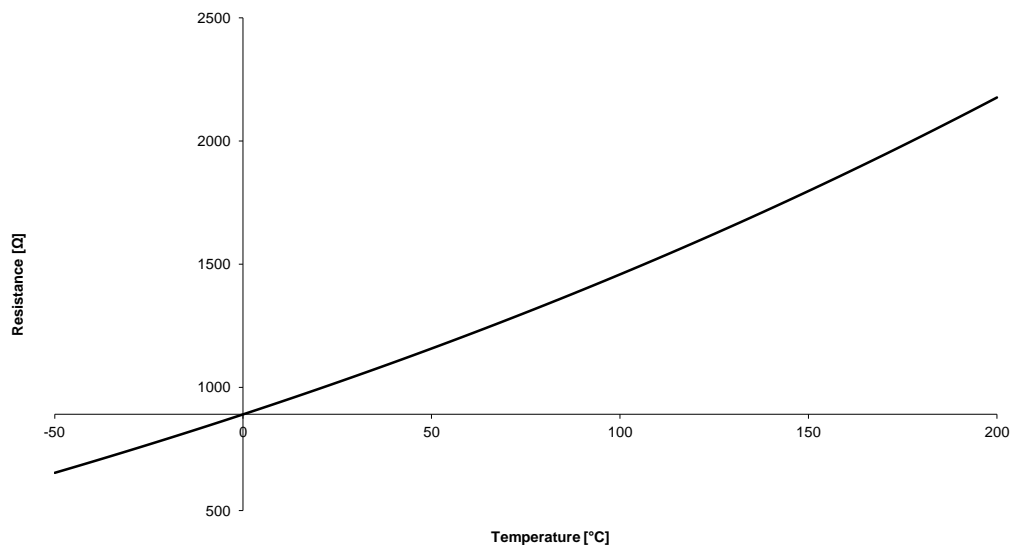
		Charakteristic of temperature sensing elements Ni 891				Ni891	
						VÝTISK ČÍSLO	
AUTOR	Lukáš Osadník					SKART. ZNAK	S10
STRANA	2 z 2	VERZE	C z 25.11.13	NAHRAZUJE	B z 29.9.08	KLASIF. KÓD	I

Characteristic of the sensing element



Accuracy classes of the sensing element

Sensing elements are produced in two basic accuracy classes with tolerance fields which are specified following formula:

	for $-50^{\circ}\text{C} \leq t < 0^{\circ}\text{C}$	for $0^{\circ}\text{C} \geq t \text{ to } \leq 200^{\circ}\text{C}$
Class A	$\Delta T = \pm (0,2 + 0,014 * t)$ in $^{\circ}\text{C}$	$\Delta T = \pm (0,2 + 0,0035 * t)$ in $^{\circ}\text{C}$
Class B	$\Delta T = \pm (0,4 + 0,028 * t)$ in $^{\circ}\text{C}$	$\Delta T = \pm (0,4 + 0,0070 * t)$ in $^{\circ}\text{C}$

* |t| je absolutní hodnota teploty ve $^{\circ}\text{C}$

Temperature [°C]	Resistance [Ω]	Class A		Class B	
		ΔT [°C]	ΔR [Ω]	ΔT [°C]	ΔR [Ω]
-30	745,3	$\pm 0,62$	$\pm 2,91$	$\pm 1,24$	$\pm 5,83$
0	891,1	$\pm 0,20$	$\pm 1,00$	$\pm 0,40$	$\pm 2,00$
50	1158,2	$\pm 0,38$	$\pm 2,14$	$\pm 0,75$	$\pm 4,28$
100	1459,0	$\pm 0,55$	$\pm 3,52$	$\pm 1,10$	$\pm 7,04$
150	1797,2	$\pm 0,73$	$\pm 5,26$	$\pm 1,45$	$\pm 10,52$
200	2176,7	$\pm 0,90$	$\pm 7,20$	$\pm 1,80$	$\pm 14,40$

Tolerance field

