Sensors NTC20kΩ

REGMET sensors type P1x**H...,** A1x**H...**

Table of resistance [Ω] dependence on temperature

°C	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-30	415.716									
-20	221,450	235,428	250,387	266,395	283,536	301,905	321,591	342,697	365,340	389,640
-10	122,555	129,813	137,551	154,801	154,603	163,991	174,017	184,723	196,160	208,381
0	70,242	74,151	78,304	82,717	87,407	92,395	97,698	103,340	109,348	115,743

°C	0	1	2	3	4	5	6	7	8	9
0	70,242	66,559	63,090	59,820	56,738	53,832	51,090	48,503	46,060	43,754
10	41,575	39,517	37,572	35,733	33,993	32,348	30,792	29,318	27,922	26,601
20	25,349	24,162	23,038	21,971	20,960	20,000	19,089	18,225	17,405	16,625
30	15,884	15,181	14,512	13,876	13,271	12,695	12,148	11,627	11,131	10,658
40	10,209	9,780	9,372	8,983	8,611	8,257	7,920	7,597	7,290	6,997
50	6,717	6,449	6,194	5,949	5,716	5,493	5,280	5,076	4,881	4,695
60	4,516	4,345	4,182	4,025	3,875	3,732	3,594	3,462	3,336	3,215
70	3,098	2,987	2,880	2,778	2,679	2,585	2,494	2,407	2,324	2,243
80	2,166	2,092	2,021	1,952	1,886	1,823	1,762	1,704	1,647	1,593
90	1,541	1,491	1,442	1,396	1,351	1,308	1,266	1,226	1,188	1,150
100	1,114	1,080	1,046	1,014	0,983	0,953	0,924	0,896	0,869	0,843
110	0,818	0,794	0,771	0,748	0,726	0,705	0,684	0,665	0,646	0,627
120	0,609	0,592	0,575	0,559	0,544	0,529	0,514	0,200	0,486	0,473
130	0,46	0,447	0,435	0,424	0,412	0,401	0,391	0,381	0,371	0,361
140	0,351	0,342	0,334	0,325	0,317	0,309	0,301	0,293	0,286	0,279
150	0,272									

The temperature dependence of the sensor resistance on temperature is given by the equation:

$$T = (A + B \cdot \ln Rt + C.(\ln Rt)^3)^{-1}$$ where $A = 1{,}152085338392319 \cdot 10^{-3}$, $B = 2{,}13146276927388 \cdot 10^{-4}$, $C = 9{,}372336566006315 \cdot 10^{-8}$

Temperature range	-30 ÷ 150°C
Resistance at 25°C	20000 Ω
Recommended measuring current (the room temperature range)	0,1 mA
Recommended measuring current (the temperature range of approx. 100 °C)	cca 1 mA
Maximal power	1 mW
Coeficient β25/85	4263 ± 1%
Tolerance band t = 0 to 70 °C	± 1 °C