

Tabella di calibrazione per termometri a resistenza PT100 in accordo alle norme IEC 751

Relazione tra resistenza e temperatura											Relazione tra resistenza e temperatura																																																																																										
	0	-1	-2	-3	-4	-5	-6	-7	-8	-9		0	1	2	3	4	5	6	7	8	9																																																																																
-200	18,493										440	260,720	261,060	261,399	261,739	262,078	262,417	262,757	263,096	263,434	263,773																																																																																
-190	22,803	22,374	21,944	21,514	21,083	20,653	20,221	19,790	19,358	18,926	450	264,112	264,450	264,789	265,127	265,465	265,803	266,141	266,479	266,817	267,154																																																																																
-180	27,078	26,652	26,226	25,799	25,372	24,945	24,517	24,089	23,661	23,232	460	267,492	267,829	268,167	268,504	268,841	269,178	269,514	269,851	270,188	270,524																																																																																
-170	31,320	30,897	30,474	30,051	29,627	29,203	28,779	28,354	27,929	27,504	470	270,860	271,197	271,533	271,869	272,204	272,540	272,876	273,211	273,547	273,882																																																																																
-160	35,531	35,111	34,691	34,271	33,850	33,429	33,008	32,587	32,165	31,742	480	274,217	274,552	274,887	275,222	275,557	275,891	276,226	276,560	276,894	277,228																																																																																
-150	39,714	39,297	38,879	38,462	38,044	37,626	37,208	36,789	36,370	35,951	490	277,562	277,896	278,230	278,564	278,897	279,231	279,564	279,897	280,230	280,563																																																																																
-140	43,869	43,455	43,040	42,625	42,210	41,795	41,379	40,963	40,547	40,130	500	280,896	281,229	281,561	281,894	282,226	282,558	282,891	283,223	283,555	283,886																																																																																
-130	47,999	47,587	47,175	46,763	46,350	45,937	45,524	45,111	44,697	44,283	510	284,218	284,550	284,881	285,212	285,544	285,875	286,206	286,537	286,867	287,198																																																																																
-120	52,106	51,696	51,286	50,876	50,466	50,055	49,645	49,234	48,822	48,411	520	287,528	287,859	288,189	288,519	288,849	289,179	289,509	289,839	290,168	290,498																																																																																
-110	56,190	55,783	55,375	54,967	54,559	54,151	53,742	53,333	52,924	52,515	530	290,827	291,156	291,486	291,815	292,144	292,472	292,801	293,130	293,458	293,786																																																																																
-100	60,254	59,849	59,443	59,037	58,631	58,225	57,818	57,412	57,005	56,598	540	294,114	294,443	294,770	295,098	295,426	295,754	296,081	296,409	296,736	297,063																																																																																
-90	64,299	63,895	63,491	63,087	62,683	62,279	61,874	61,469	61,065	60,659	550	297,399	297,717	298,044	298,370	298,697	299,023	299,350	299,676	300,002	300,328																																																																																
-80	68,325	67,923	67,521	67,119	66,717	66,314	65,911	65,508	65,105	64,702	560	300,654	300,980	301,305	301,631	301,956	302,282	302,607	302,932	303,257	303,582																																																																																
-70	72,335	71,934	71,534	71,134	70,733	70,332	69,931	69,530	69,128	68,727	570	303,906	304,231	304,556	304,880	305,204	305,528	305,852	306,176	306,500	306,824																																																																																
-60	76,328	75,930	75,531	75,132	74,733	74,333	73,934	73,534	73,135	72,735	580	307,147	307,471	307,794	308,117	308,440	308,763	309,086	309,409	309,732	310,054																																																																																
-50	80,307	79,910	79,512	79,115	78,717	78,319	77,921	77,523	77,125	76,727	590	310,376	310,699	311,021	311,343	311,665	311,987	312,308	312,630	312,951	313,273																																																																																
-40	84,271	83,875	83,479	83,083	82,687	82,291	81,894	81,498	81,101	80,704	600	313,594	313,915	314,236	314,557	314,878	315,198	315,519	315,839	316,160	316,480																																																																																
-30	88,222	87,828	87,433	87,038	86,643	86,248	85,853	85,458	85,063	84,667	610	316,800	317,120	317,440	317,760	318,079	318,399	318,718	319,037	319,356	319,675																																																																																
-20	92,160	91,767	91,374	90,980	90,587	90,193	89,799	89,405	89,011	88,617	620	319,994	320,313	320,632	320,950	321,269	321,587	321,905	322,224	322,541	322,859																																																																																
-10	96,086	95,694	95,302	94,910	94,517	94,125	93,732	93,339	92,946	92,553	630	323,177	323,495	323,812	324,130	324,447	324,764	325,081	325,398	325,715	326,032																																																																																
0	100,000	99,609	99,218	98,827	98,436	98,045	97,653	97,262	96,870	96,478	640	326,348	326,665	326,981	327,297	327,614	327,930	328,245	328,561	328,877	329,192																																																																																
0	100,000	100,391	100,781	101,172	101,562	101,953	102,343	102,733	103,123	103,513	650	329,508	329,823	330,138	330,453	330,768	331,083	331,398	331,713	332,027	332,342																																																																																
10	103,902	104,292	104,681	105,071	105,460	105,849	106,238	106,627	107,016	107,404	660	332,656	332,970	333,284	333,598	333,912	334,225	334,539	334,852	335,166	335,479																																																																																
20	107,793	108,181	108,570	108,958	109,346	109,734	110,122	110,509	110,897	111,284	670	335,792	336,105	336,418	336,731	337,043	337,356	337,668	337,981	338,293	338,605																																																																																
30	111,672	112,059	112,446	112,833	113,220	113,607	113,994	114,380	114,767	115,153	680	338,917	339,229	339,540	339,852	340,164	340,475	340,786	341,097	341,408	341,719																																																																																
40	115,539	115,925	116,311	116,697	117,083	117,469	117,854	118,240	118,625	119,010	690	342,030	342,341	342,651	342,962	343,272	343,582	343,892	344,202	344,512	344,822																																																																																
50	119,395	119,780	120,165	120,550	120,934	121,319	121,703	122,087	122,471	122,855	700	345,132	345,441	345,751	346,060	346,369	346,678	346,987	347,296	347,604	347,913																																																																																
60	123,239	123,623	124,007	124,390	124,774	125,157	125,540	125,923	126,306	126,689	710	348,222	348,530	348,838	349,146	349,454	349,762	350,070	350,378	350,685	350,993																																																																																
70	127,072	127,454	127,837	128,219	128,602	128,984	129,366	129,748	130,130	130,511	720	351,300	351,607	351,914	352,221	352,528	352,835	353,141	353,448	353,754	354,060																																																																																
80	130,893	131,274	131,656	132,037	132,418	132,799	133,180	133,561	133,941	134,322	730	354,367	354,673	354,979	355,284	355,590	355,896	356,201	356,506	356,812	357,117																																																																																
90	134,702	135,083	135,463	135,843	136,223	136,603	136,982	137,362	137,741	138,121	740	357,422	357,727	358,031	358,336	358,641	358,945	359,249	359,553	359,857	360,161																																																																																
100	138,500	138,879	139,258	139,637	140,016	140,395	140,773	141,152	141,530	141,908	750	360,465	360,769	361,073	361,376	361,679	361,983	362,286	362,589	362,892	363,194																																																																																
110	142,286	142,664	143,042	143,420	143,797	144,175	144,552	144,930	145,307	145,684	760	363,497	363,800	364,102	364,404	364,707	365,009	365,311	365,613	365,914	366,216																																																																																
120	146,061	146,438	146,814	147,191	147,567	147,944	148,320	148,696	149,072	149,448	770	366,511	366,819	367,120	367,421	367,722	368,023	368,324	368,625	368,925	369,226																																																																																
130	149,824	150,199	150,575	150,950	151,326	151,701	152,076	152,451	152,826	153,200	780	369,526	369,826	370,127	370,427	370,726	371,026	371,326	371,625	371,925	372,224																																																																																
140	153,575	153,950	154,324	154,698	155,072	155,446	155,820	156,194	156,568	156,941	790	372,523	372,822	373,121	373,420	373,719	374,017	374,316	374,614	374,913	375,211																																																																																
150	157,315	157,688	158,061	158,435	158,808	159,180	159,553	159,926	160,298	160,671	800	375,509	375,807	376,105	376,402	376,700	376,997	377,295	377,592	377,889	378,186																																																																																
160	161,043	161,415	161,787	162,159	162,531	162,903	163,274	163,646	164,017	164,388	<table><tr><th colspan="5">Tolleranze termoresistenza PT100 secondo le norme IEC 60751:2008</th></tr><tr><th>Range</th><th colspan="2">Classe A</th><th colspan="2">Classe B</th></tr><tr><th>°C</th><th>°C</th><th>Ohm</th><th>°C</th><th>Ohm</th></tr><tr><td>-200</td><td>0.55</td><td>0.24</td><td>1.30</td><td>0.56</td></tr><tr><td>-100</td><td>0.35</td><td>0.14</td><td>0.80</td><td>0.32</td></tr><tr><td>0</td><td>0.15</td><td>0.06</td><td>0.30</td><td>0.12</td></tr><tr><td>100</td><td>0.35</td><td>0.13</td><td>0.80</td><td>0.30</td></tr><tr><td>200</td><td>0.55</td><td>0.20</td><td>1.30</td><td>0.48</td></tr><tr><td>300</td><td>0.75</td><td>0.27</td><td>1.80</td><td>0.64</td></tr><tr><td>400</td><td>0.95</td><td>0.33</td><td>2.30</td><td>0.79</td></tr><tr><td>500</td><td>1.15</td><td>0.38</td><td>2.80</td><td>0.93</td></tr><tr><td>600</td><td>1.35</td><td>0.43</td><td>3.30</td><td>1.06</td></tr><tr><td>650</td><td>1.45</td><td>0.46</td><td>3.55</td><td>1.13</td></tr><tr><td>700</td><td></td><td></td><td>3.80</td><td>1.17</td></tr><tr><td>800</td><td></td><td></td><td>4.30</td><td>1.28</td></tr><tr><td>850</td><td></td><td></td><td>4.55</td><td>1.34</td></tr></table>											Tolleranze termoresistenza PT100 secondo le norme IEC 60751:2008					Range	Classe A		Classe B		°C	°C	Ohm	°C	Ohm	-200	0.55	0.24	1.30	0.56	-100	0.35	0.14	0.80	0.32	0	0.15	0.06	0.30	0.12	100	0.35	0.13	0.80	0.30	200	0.55	0.20	1.30	0.48	300	0.75	0.27	1.80	0.64	400	0.95	0.33	2.30	0.79	500	1.15	0.38	2.80	0.93	600	1.35	0.43	3.30	1.06	650	1.45	0.46	3.55	1.13	700			3.80	1.17	800			4.30	1.28	850			4.55	1.34
Tolleranze termoresistenza PT100 secondo le norme IEC 60751:2008																																																																																																					
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700			3.80	1.17																																																																																																	
800			4.30	1.28																																																																																																	
850			4.55	1.34																																																																																																	
170	164,760	165,131	165,501	165,872	166,243	166,613	166,984	167,354	167,724	168,095																																																																																											
180	168,465	168,834	169,204	169,574	169,943	170,313	170,682	171,051	171,420	171,789																																																																																											
190	172,158	172,527	172,895	173,264	173,632	174																																																																																															