



RTD, THERMISTORS, THERMOCOUPLES AND HUMIDITY SENSOR

TABELLA DI CALIBRAZIONE PER TERMOMETRI A RESISTENZA PT100 IN ACCORDO ALLE NORME IEC 751

	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-200	18,493									
-190	22,803	22,374	21,944	21,514	21,083	20,653	20,221	19,790	19,358	18,926
-180	27,078	26,652	26,226	25,799	25,372	24,945	24,517	24,089	23,661	23,232
-170	31,320	30,897	30,474	30,051	29,627	29,203	28,779	28,354	27,929	27,504
-160	35,531	35,111	34,691	34,271	33,850	33,429	33,008	32,587	32,165	31,742
-150	39,714	39,297	38,879	38,462	38,044	37,626	37,208	36,789	36,370	35,951
-140	43,869	43,455	43,040	42,625	42,210	41,795	41,379	40,963	40,547	40,130
-130	47,999	47,587	47,175	46,763	46,350	45,937	45,524	45,111	44,697	44,283
-120	52,106	51,696	51,286	50,876	50,466	50,055	49,645	49,234	48,822	48,411
-110	56,190	55,783	55,375	54,967	54,559	54,151	53,742	53,333	52,924	52,515
-100	60,254	59,849	59,443	59,037	58,631	58,225	57,818	57,412	57,005	56,598
-90	64,299	63,895	63,491	63,087	62,683	62,279	61,874	61,469	61,065	60,659
-80	68,325	67,923	67,521	67,119	66,717	66,314	65,911	65,508	65,105	64,702
-70	72,335	71,934	71,534	71,134	70,733	70,332	69,931	69,530	69,128	68,727
-60	76,328	75,930	75,531	75,132	74,733	74,333	73,934	73,534	73,135	72,735
-50	80,307	79,910	79,512	79,115	78,717	78,319	77,921	77,523	77,125	76,727
-40	84,271	83,875	83,479	83,083	82,687	82,291	81,894	81,498	81,101	80,704
-30	88,222	87,828	87,433	87,038	86,643	86,248	85,853	85,458	85,063	84,667
-20	92,160	91,767	91,374	90,980	90,587	90,193	89,799	89,405	89,011	88,617
-10	96,086	95,694	95,302	94,910	94,517	94,125	93,732	93,339	92,946	92,553
0	100,000	99,609	99,218	98,827	98,436	98,045	97,653	97,262	96,870	96,478
0	100,000	100,391	100,781	101,172	101,562	101,953	102,343	102,733	103,123	103,513
10	103,902	104,292	104,681	105,071	105,460	105,849	106,238	106,627	107,016	107,404
20	107,793	108,181	108,570	108,958	109,346	109,734	110,122	110,509	110,897	111,284
30	111,672	112,059	112,446	112,833	113,220	113,607	113,994	114,380	114,767	115,153
40	115,539	115,925	116,311	116,697	117,083	117,469	117,854	118,240	118,625	119,010
50	119,395	119,780	120,165	120,550	120,934	121,319	121,703	122,087	122,471	122,855
60	123,239	123,623	124,007	124,390	124,774	125,157	125,540	125,923	126,306	126,689
70	127,072	127,454	127,837	128,219	128,602	128,984	129,366	129,748	130,130	130,511
80	130,893	131,274	131,656	132,037	132,418	132,799	133,180	133,561	133,941	134,322
90	134,702	135,083	135,463	135,843	136,223	136,603	136,982	137,362	137,741	138,121
100	138,500	138,879	139,258	139,637	140,016	140,395	140,773	141,152	141,530	141,908
110	142,286	142,664	143,042	143,420	143,797	144,175	144,552	144,930	145,307	145,684
120	146,061	146,438	146,814	147,191	147,567	147,944	148,320	148,696	149,072	149,448
130	149,824	150,199	150,575	150,950	151,326	151,701	152,076	152,451	152,826	153,200
140	153,575	153,950	154,324	154,698	155,072	155,446	155,820	156,194	156,568	156,941
150	157,315	157,688	158,061	158,435	158,808	159,180	159,553	159,926	160,298	160,671
160	161,043	161,415	161,787	162,159	162,531	162,903	163,274	163,646	164,017	164,388
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	174,000	174,368	174,736	175,104	175,472
200	175,840	176,207	176,575	176,942	177,309	177,676	178,043	178,410	178,777	179,143
210	179,510	179,876	180,242	180,609	180,975	181,340	181,706	182,072	182,437	182,803
220	183,168	183,533	183,899	184,264	184,628	184,993	185,358	185,722	186,087	186,451
230	186,815	187,179	187,543	187,907	188,271	188,634	188,998	189,361	189,724	190,088
240	190,451	190,813	191,176	191,539	191,901	192,264	192,626	192,988	193,350	193,712
250	194,074	194,436	194,798	195,159	195,520	195,882	196,243	196,604	196,965	197,326
260	197,686	198,047	198,407	198,768	199,128	199,488	199,848	200,208	200,568	200,927
270	201,287	201,646	202,006	202,365	202,724	203,083	203,442	203,800	204,159	204,517
280	204,876	205,234	205,592	205,950	206,308	206,666	207,024	207,381	207,739	208,096
290	208,453	208,810	209,167	209,524	209,881	210,237	210,594	210,950	211,307	211,663
300	212,019	212,375	212,731	213,086	213,442	213,797	214,153	214,508	214,863	215,218
310	215,573	215,928	216,282	216,637	216,991	217,346	217,700	218,054	218,408	218,762
320	219,115	219,469	219,822	220,176	220,529	220,882	221,235	221,588	221,941	222,294
330	222,646	222,999	223,351	223,703	224,055	224,407	224,759	225,111	225,463	225,814
340	226,166	226,517	226,868	227,219	227,570	227,921	228,272	228,622	228,973	229,323
350	229,673	230,023	230,373	230,723	231,073	231,423	231,772	232,122	232,471	232,820
360	233,169	233,518	233,867	234,216	234,565	234,913	235,261	235,610	235,958	236,306
370	236,654	237,002	237,349	237,697	238,044	238,392	238,739	239,086	239,433	239,780
380	240,127	240,473	240,820	241,166	241,513	241,859	242,205	242,551	242,897	243,242
390	243,588	243,933	244,279	244,624	244,969	245,314	245,659	246,004	246,349	246,693
400	247,038	247,382	247,726	248,070	248,414	248,758	249,102	249,445	249,789	250,132
410	250,476	250,819	251,162	251,505	251,848	252,190	252,533	252,875	253,218	253,560
420	253,902	254,244	254,586	254,928	255,269	255,611	255,952	256,294	256,635	256,976
430	257,317	257,658	257,999	258,339	258,680	259,020	259,360	259,700	260,040	260,380



RTD, THERMISTORS, THERMOCOUPLES AND HUMIDITY SENSOR

TABELLA DI CALIBRAZIONE PER TERMOMETRI A RESISTENZA PT100 IN ACCORDO ALLE NORME IEC 751

Relazione tra resistenza e temperatura

	0	1	2	3	4	5	6	7	8	9
440	260,720	261,060	261,399	261,739	262,078	262,417	262,757	263,096	263,434	263,773
450	264,112	264,450	264,789	265,127	265,465	265,803	266,141	266,479	266,817	267,154
460	267,492	267,829	268,167	268,504	268,841	269,178	269,514	269,851	270,188	270,524
470	270,860	271,197	271,533	271,869	272,204	272,540	272,876	273,211	273,547	273,882
480	274,217	274,552	274,887	275,222	275,557	275,891	276,226	276,560	276,894	277,228
490	277,562	277,896	278,230	278,564	278,897	279,231	279,564	279,897	280,230	280,563
500	280,896	281,229	281,561	281,894	282,226	282,558	282,891	283,223	283,555	283,886
510	284,218	284,550	284,881	285,212	285,544	285,875	286,206	286,537	286,867	287,198
520	287,528	287,859	288,189	288,519	288,849	289,179	289,509	289,839	290,168	290,498
530	290,827	291,156	291,486	291,815	292,144	292,472	292,801	293,130	293,458	293,786
540	294,114	294,443	294,770	295,098	295,426	295,754	296,081	296,409	296,736	297,063
550	297,390	297,717	298,044	298,370	298,697	299,023	299,350	299,676	300,002	300,328
560	300,654	300,980	301,305	301,631	301,956	302,282	302,607	302,932	303,257	303,582
570	303,906	304,231	304,556	304,880	305,204	305,528	305,852	306,176	306,500	306,824
580	307,147	307,471	307,794	308,117	308,440	308,763	309,086	309,409	309,732	310,054
590	310,376	310,699	311,021	311,343	311,665	311,987	312,308	312,630	312,951	313,273
600	313,594	313,915	314,236	314,557	314,878	315,198	315,519	315,839	316,160	316,480
610	316,800	317,120	317,440	317,760	318,079	318,399	318,718	319,037	319,356	319,675
620	319,994	320,313	320,632	320,950	321,269	321,587	321,905	322,224	322,541	322,859
630	323,177	323,495	323,812	324,130	324,447	324,764	325,081	325,398	325,715	326,032
640	326,348	326,665	326,981	327,297	327,614	327,930	328,245	328,561	328,877	329,192
650	329,508	329,823	330,138	330,453	330,768	331,083	331,398	331,713	332,027	332,342
660	332,656	332,970	333,284	333,598	333,912	334,225	334,539	334,852	335,166	335,479
670	335,792	336,105	336,418	336,731	337,043	337,356	337,668	337,981	338,293	338,605
680	338,917	339,229	339,540	339,852	340,164	340,475	340,786	341,097	341,408	341,719
690	342,030	342,341	342,651	342,962	343,272	343,582	343,892	344,202	344,512	344,822
700	345,132	345,441	345,751	346,060	346,369	346,678	346,987	347,296	347,604	347,913
710	348,222	348,530	348,838	349,146	349,454	349,762	350,070	350,378	350,685	350,993
720	351,300	351,607	351,914	352,221	352,528	352,835	353,141	353,448	353,754	354,060
730	354,367	354,673	354,979	355,284	355,590	355,896	356,201	356,506	356,812	357,117
740	357,422	357,727	358,031	358,336	358,641	358,945	359,249	359,553	359,857	360,161
750	360,465	360,769	361,073	361,376	361,679	361,983	362,286	362,589	362,892	363,194
760	363,497	363,800	364,102	364,404	364,707	365,009	365,311	365,613	365,914	366,216
770	366,517	366,819	367,120	367,421	367,722	368,023	368,324	368,625	368,925	369,226
780	369,526	369,826	370,127	370,427	370,726	371,026	371,326	371,625	371,925	372,224
790	372,523	372,822	373,121	373,420	373,719	374,017	374,316	374,614	374,913	375,211
800	375,509	375,807	376,105	376,402	376,700	376,997	377,295	377,592	377,889	378,186

TABELLA TOLLERANZE TERMORESISTENZA PT100 SECONDO LE NORME IEC 60751:2008

Range	Classe A		Classe B	
	°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