

Tabele zavisnosti otpornosti od temperature senzora Pt 100 u temperaturnim skalama ITS-90 i IPTS-68

Zavisnost otpornosti od temperature senzora Pt 100 prema IEC propisu 751.

Temperatura je u °C, prema Međunarodnim temperaturnim skalama ITS-90 i IPTS-68, a otpornost je u Ω.

[°C] ITS-90	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-200	18,520									
-190	22,825	22,397	21,967	21,538	21,108	20,677	20,247	19,815	19,384	18,952
-180	27,096	26,671	26,245	25,819	25,392	24,965	24,538	24,110	23,682	23,254
-170	31,335	30,913	30,490	30,067	29,643	29,220	28,796	28,371	27,947	27,522
-160	35,543	35,124	34,704	34,284	33,864	33,443	33,022	32,601	32,179	31,757
-150	39,723	39,306	38,889	38,472	38,055	37,637	37,219	36,800	36,382	35,963
-140	43,876	43,462	43,048	42,633	42,218	41,803	41,388	40,972	40,556	40,140
-130	48,005	47,593	47,181	46,769	46,356	45,944	45,531	45,117	44,704	44,290
-120	52,110	51,700	51,291	50,881	50,470	50,060	49,649	49,239	48,828	48,416
-110	56,193	55,786	55,378	54,970	54,562	54,154	53,746	53,337	52,928	52,519
-100	60,256	59,850	59,445	59,039	58,633	58,227	57,821	57,414	57,007	56,600
-90	64,300	63,896	63,492	63,088	62,684	62,280	61,876	61,471	61,066	60,661
-80	68,325	67,924	67,522	67,120	66,717	66,315	65,912	65,509	65,106	64,703
-70	72,335	71,934	71,534	71,134	70,733	70,332	69,931	69,530	69,129	68,727
-60	76,328	75,929	75,530	75,131	74,732	74,333	73,934	73,534	73,134	72,735
-50	80,306	79,909	79,512	79,114	78,717	78,319	77,921	77,523	77,125	76,726
-40	84,271	83,875	83,479	83,083	82,687	82,290	81,894	81,497	81,100	80,703
-30	88,222	87,827	87,432	87,038	86,643	86,248	85,853	85,457	85,062	84,666
-20	92,160	91,767	91,373	90,980	90,586	90,192	89,798	89,404	89,010	88,616
-10	96,086	95,694	95,302	94,909	94,517	94,124	93,732	93,339	92,946	92,553
0	100,000	99,609	99,218	98,827	98,436	98,044	97,653	97,261	96,870	96,478

[°C] IPTS-68	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

[°C] ITS-90	0	1	2	3	4	5	6	7	8	9
0	100,000	100,391	100,781	101,172	101,562	101,953	102,343	102,733	103,123	103,513
10	103,903	104,292	104,682	105,071	105,460	105,849	106,238	106,627	107,016	107,405
20	107,793	108,182	108,570	108,959	109,347	109,735	110,123	110,510	110,898	111,286
30	111,673	112,060	112,447	112,835	113,221	113,608	113,995	114,382	114,768	115,155
40	115,541	115,927	116,313	116,699	117,085	117,470	117,856	118,241	118,627	119,012
50	119,397	119,782	120,167	120,552	120,936	121,321	121,705	122,090	122,474	122,858
60	123,242	123,626	124,009	124,393	124,777	125,160	125,543	125,926	126,309	126,692
70	127,075	127,458	127,840	128,223	128,605	128,987	129,370	129,752	130,133	130,515
80	130,897	131,278	131,660	132,041	132,422	132,803	133,184	133,565	133,946	134,326
90	134,707	135,087	135,468	135,848	136,228	136,608	136,987	137,367	137,747	138,126
100	138,505	138,885	139,264	139,643	140,022	140,400	140,779	141,158	141,536	141,914
110	142,293	142,671	143,049	143,426	143,804	144,182	144,559	144,937	145,314	145,691
120	146,068	146,445	146,822	147,198	147,575	147,951	148,328	148,704	149,080	149,456
130	149,832	150,208	150,583	150,959	151,334	151,710	152,085	152,460	152,835	153,210
140	153,584	153,959	154,333	154,708	155,082	155,456	155,830	156,204	156,578	156,952
150	157,325	157,699	158,072	158,445	158,818	159,191	159,564	159,937	160,309	160,682
160	161,054	161,427	161,799	162,171	162,543	162,915	163,286	163,658	164,030	164,401
170	164,772	165,143	165,514	165,885	166,256	166,627	166,997	167,368	167,738	168,108
180	168,478	168,848	169,218	169,588	169,958	170,327	170,696	171,066	171,435	171,804
190	172,173	172,542	172,910	173,279	173,648	174,016	174,384	174,752	175,120	175,488
200	175,856	176,224	176,591	176,959	177,326	177,693	178,060	178,427	178,794	179,161
210	179,528	179,894	180,260	180,627	180,993	181,359	181,725	182,091	182,456	182,822
220	183,188	183,553	183,918	184,283	184,648	185,013	185,378	185,743	186,107	186,472
230	186,836	187,200	187,564	187,928	188,292	188,656	189,019	189,383	189,746	190,110
240	190,473	190,836	191,199	191,562	191,924	192,287	192,649	193,012	193,374	193,736
250	194,098	194,460	194,822	195,183	195,545	195,906	196,268	196,629	196,990	197,351
260	197,712	198,073	198,433	198,794	199,154	199,514	199,875	200,235	200,595	200,954
270	201,314	201,674	202,033	202,393	202,752	203,111	203,470	203,829	204,188	204,546
280	204,905	205,263	205,622	205,980	206,338	206,696	207,054	207,411	207,769	208,127
290	208,484	208,841	209,198	209,555	209,912	210,269	210,626	210,982	211,339	211,695
300	212,051	212,408	212,764	213,120	213,475	213,831	214,187	214,542	214,897	215,252
310	215,608	215,962	216,317	216,672	217,027	217,381	217,736	218,090	218,444	218,798
320	219,152	219,506	219,860	220,213	220,567	220,920	221,273	221,626	221,979	222,332
330	222,685	223,038	223,390	223,743	224,095	224,447	224,799	225,151	225,503	225,855
340	226,206	226,558	226,909	227,260	227,612	227,963	228,314	228,664	229,015	229,366
350	229,716	230,066	230,417	230,767	231,117	231,467	231,816	232,166	232,516	232,865
360	233,214	233,564	233,913	234,262	234,610	234,959	235,308	235,656	236,005	236,353
370	236,701	237,049	237,397	237,745	238,093	238,440	238,788	239,135	239,482	239,829
380	240,176	240,523	240,870	241,217	241,563	241,910	242,256	242,602	242,948	243,294
390	243,640	243,986	244,331	244,677	245,022	245,367	245,713	246,058	246,403	246,747
400	247,092	247,437	247,781	248,125	248,470	248,814	249,158	249,502	249,845	250,189
410	250,533	250,876	251,219	251,562	251,906	252,248	252,591	252,934	253,277	253,619
420	253,962	254,304	254,646	254,988	255,330	255,672	256,013	256,355	256,696	257,038
430	257,379	257,720	258,061	258,402	258,743	259,083	259,424	259,764	260,105	260,445
440	260,785	261,125	261,465	261,804	262,144	262,483	262,823	263,162	263,501	263,840
450	264,179	264,518	264,857	265,195	265,534	265,872	266,210	266,548	266,886	267,224
460	267,562	267,900	268,237	268,574	268,912	269,249	269,586	269,923	270,260	270,597
470	270,933	271,270	271,606	271,942	272,278	272,614	272,950	273,286	273,622	273,957
480	274,293	274,628	274,963	275,298	275,633	275,968	276,303	276,638	276,972	277,307
490	277,641	277,975	278,309	278,643	278,977	279,311	279,644	279,978	280,311	280,644
500	280,978	281,311	281,643	281,976	282,309	282,641	282,974	283,306	283,638	283,971

[°C] ITS-90	0	1	2	3	4	5	6	7	8	9
510	284,303	284,634	284,966	285,298	285,629	285,961	286,292	286,623	286,954	287,285
520	287,616	287,947	288,277	288,608	288,938	289,268	289,599	289,929	290,258	290,588
530	290,918	291,247	291,577	291,906	292,235	292,565	292,894	293,222	293,551	293,880
540	294,208	294,537	294,865	295,193	295,521	295,849	296,177	296,505	296,832	297,160
550	297,487	297,814	298,142	298,469	298,795	299,122	299,449	299,775	300,102	300,428
560	300,754	301,080	301,406	301,732	302,058	302,384	302,709	303,035	303,360	303,685
570	304,010	304,335	304,660	304,985	305,309	305,634	305,958	306,282	306,606	306,930
580	307,254	307,578	307,902	308,225	308,549	308,872	309,195	309,518	309,841	310,164
590	310,487	310,810	311,132	311,454	311,777	312,099	312,421	312,743	313,065	313,386
600	313,708	314,029	314,351	314,672	314,993	315,314	315,635	315,956	316,277	316,597
610	316,918	317,238	317,558	317,878	318,198	318,518	318,838	319,157	319,477	319,796
620	320,116	320,435	320,754	321,073	321,391	321,710	322,029	322,347	322,666	322,984
630	323,302	323,620	323,938	324,256	324,573	324,891	325,208	325,526	325,843	326,160
640	326,477	326,794	327,110	327,427	327,744	328,060	328,376	328,692	329,008	329,324
650	329,640	329,956	330,271	330,587	330,902	331,217	331,533	331,848	332,162	332,477
660	332,792	333,106	333,421	333,735	334,049	334,363	334,677	334,991	335,305	335,619
670	335,932	336,246	336,559	336,872	337,185	337,498	337,811	338,123	338,436	338,748
680	339,061	339,373	339,685	339,997	340,309	340,621	340,932	341,244	341,555	341,867
690	342,178	342,489	342,800	343,111	343,422	343,732	344,043	344,353	344,663	344,973
700	345,284	345,593	345,903	346,213	346,522	346,832	347,141	347,451	347,760	348,069
710	348,378	348,686	348,995	349,303	349,612	349,920	350,228	350,536	350,844	351,152
720	351,460	351,768	352,075	352,382	352,690	352,997	353,304	353,611	353,918	354,224
730	354,531	354,837	355,144	355,450	355,756	356,062	356,368	356,674	356,979	357,285
740	357,590	357,896	358,201	358,506	358,811	359,116	359,420	359,725	360,029	360,334
750	360,638	360,942	361,246	361,550	361,854	362,158	362,461	362,765	363,068	363,371
760	363,674	363,977	364,280	364,583	364,886	365,188	365,491	365,793	366,095	366,397
770	366,699	367,001	367,303	367,604	367,906	368,207	368,508	368,810	369,111	369,412
780	369,712	370,013	370,314	370,614	370,914	371,215	371,515	371,815	372,115	372,414
790	372,714	373,013	373,313	373,612	373,911	374,210	374,509	374,808	375,107	375,406
800	375,704	376,002	376,301	376,599	376,897	377,195	377,493	377,790	378,088	378,385
810	378,683	378,980	379,277	379,574	379,871	380,167	380,464	380,761	381,057	381,353
820	381,649	381,946	382,242	382,537	382,833	383,129	383,424	383,720	384,015	384,310
830	384,605	384,900	385,195	385,489	385,784	386,078	386,373	386,667	386,961	387,255
840	387,549	387,843	388,136	388,430	388,723	389,016	389,310	389,603	389,896	390,188
850	390,481									

[°C] IPTS-68	0	1	2	3	4	5	6	7	8	9
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
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

[°C] IPTS-68	0	1	2	3	4	5	6	7	8	9
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
810	378,483	378,779	379,076	379,373	379,669	379,965	380,261	380,558	380,853	381,149
820	381,445	381,741	382,036	382,331	382,627	382,922	383,217	383,512	383,806	384,101
830	384,396	384,690	384,984	385,279	385,573	385,867	386,161	386,454	386,748	387,041
840	387,335	387,628	387,921	388,214	388,507	388,800	389,093	389,385	389,678	389,970
850	390,262									

GK 061104

Symmetry KD, RS-16000 Leskovac, Telefon: (016) 59-908, Epošta: symmetry@ptt.yu