

Temperature °Controls Pty Ltd

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THERMOCOUPLES * RTD SENSORS * THERMOWELLS * EXTENSION CABLES * LEVEL SWITCHES

Thermocouple – Temperature – EMF Conversion Table – ANSI MC96.1, IEC 584-3 * Approximate Values only in microvolts (µV)

°C	B	R	S	N	K	E	J	T
+	GREY	BLACK	BLACK	ORANGE	YELLOW	PURPLE	WHITE	BLUE
-	RED	RED	RED	RED	RED	RED	RED	RED
0	0	0	0	0	0	0	0	0
10	-2	54	55	26	397	591	507	391
20	-3	111	113	525	798	1192	1019	789
30	-2	171	173	793	1203	1801	1536	1196
40	-0	232	235	1064	1612	2419	2058	1611
50	2	296	299	1340	2023	3047	2585	2035
60	6	263	365	1619	2436	3683	3115	2467
70	11	431	433	1902	2851	4329	3649	2908
80	17	501	502	2189	3267	4983	4186	3357
90	25	573	573	2480	3682	5646	4725	3813
100	33	647	646	2774	4096	6317	5268	4277
150	92	1041	1029	4302	6138	9787	8008	6702
200	178	1468	1441	5913	8138	13419	10777	9286
250	291	1923	1874	7597	10153	17178	13553	12011
300	431	2401	2323	9341	12209	21033	16325	14860
350	596	2896	2786	11136	14293	24961	19089	17816
400	786	3408	3259	12974	16397	28943	21846	20869
450	1002	3933	3742	14846	18516	32960	24607	
500	1241	4471	4233	16748	20644	32960	24607	
550	1505	5021	4732	18672	22776	41045	30210	
600	1791	5583	5239	20613	24905	45085	33096	
650	2100	6157	5753	22566	27025	49109	36066	
700	2430	6743	6275	24527	29129	53110	39130	
750	2782	7340	6806	26490	31213	57080	42280	
800	3154	7950	7345	28454	33275	61017	45494	
850	3546	8571	7893	30416	35313	64922		
900	3957	9205	8449	32372	37326	68787		
950	4387	9850	9014	34319	39314	71463		
1000	4834	10506	9587	36255	41276	76373		
1050	5299	11173	10168	38179	43211			
1100	5780	11850	10757	40087	45119			
1200	6786	13228	11951	43846	48838			
1250	7311	13926	12554	45694	50644			
1300	7848	14629	13159	47513	52410			
1400	8956	16040	14373					
1600	11263	18849	16777					

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