



Technical Information Data Bulletin

Copper 10 Ohms (Cu10)

α 0.00427

Temperature vs Resistance Table

Resistance @ 0°C

Temperature Range:

-140 to 500°F

-100 to 260°C

Temp	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-100	5.676									
-90	6.117	6.073	6.029	5.985	5.940	5.896	5.852	5.808	5.764	5.720
-80	6.556	6.512	6.468	6.424	6.380	6.336	6.293	6.249	6.205	6.161
-70	6.993	6.950	6.906	6.862	6.818	6.775	6.731	6.687	6.643	6.600
-60	7.429	7.385	7.342	7.298	7.255	7.211	7.168	7.124	7.081	7.037
-50	7.863	7.820	7.776	7.733	7.689	7.646	7.603	7.559	7.516	7.472
-40	8.290	8.248	8.205	8.162	8.119	8.077	8.034	7.991	7.948	7.906
-30	8.718	8.675	8.632	8.589	8.547	8.504	8.461	8.419	8.376	8.333
-20	9.145	9.102	9.060	9.017	8.974	8.931	8.889	8.846	8.803	8.760
-10	9.573	9.530	9.487	9.444	9.402	9.359	9.316	9.273	9.231	9.188
0	10.000	9.957	9.915	9.872	9.829	9.786	9.744	9.701	9.658	9.615
Temp	0	1	2	3	4	5	6	7	8	9
0	10.000	10.043	10.086	10.128	10.171	10.214	10.257	10.299	10.342	10.385
10	10.427	10.470	10.513	10.556	10.598	10.641	10.684	10.727	10.769	10.812
20	10.855	10.898	10.940	10.983	11.026	11.069	11.111	11.154	11.197	11.240
30	11.282	11.325	11.368	11.411	11.453	11.496	11.539	11.582	11.624	11.667
40	11.710	11.753	11.795	11.838	11.881	11.923	11.966	12.009	12.052	12.094
50	12.137	12.180	12.223	12.265	12.308	12.351	12.394	12.436	12.479	12.522
60	12.565	12.607	12.650	12.693	12.736	12.778	12.821	12.864	12.907	12.949
70	12.992	13.035	13.078	13.120	13.163	13.206	13.249	13.291	13.334	13.377
80	13.419	13.462	13.505	13.548	13.590	13.633	13.676	13.719	13.761	13.804
90	13.847	13.890	13.932	13.975	14.018	14.061	14.103	14.146	14.189	14.232
100	14.274	14.317	14.360	14.403	14.445	14.488	14.531	14.574	14.616	14.659
110	14.702	14.745	14.787	14.830	14.873	14.915	14.958	15.001	15.044	15.086
120	15.129	15.172	15.215	15.257	15.300	15.343	15.386	15.428	15.471	15.514
130	15.557	15.599	15.642	15.685	15.728	15.770	15.813	15.856	15.899	15.941
140	15.984	16.027	16.070	16.112	16.155	16.198	16.241	16.283	16.326	16.369
150	16.411	16.455	16.498	16.541	16.584	16.627	16.670	16.713	16.756	16.799
160	16.843	16.886	16.929	16.972	17.015	17.058	17.101	17.144	17.187	17.231
170	17.274	17.317	17.360	17.403	17.446	17.489	17.532	17.576	17.619	17.662
180	17.705	17.748	17.791	17.834	17.877	17.921	17.964	18.007	18.050	18.093
190	18.136	18.179	18.222	18.266	18.309	18.352	18.395	18.438	18.481	18.524
200	18.568	18.611	18.654	18.697	18.740	18.783	18.826	18.870	18.913	18.956
210	18.999	19.042	19.085	19.128	19.172	19.215	19.258	19.301	19.344	19.387
220	19.431	19.474	19.517	19.560	19.603	19.646	19.689	19.733	19.776	19.819
230	19.862	19.905	19.948	19.992	20.035	20.078	20.121	20.164	20.207	20.251
240	20.294	20.337	20.380	20.423	20.467	20.510	20.553	20.596	20.639	20.682
250	20.726	20.769	20.812	20.855	20.898	20.942	20.985	21.028	21.071	21.114
260	21.157									

TEMPERATURE & PROCESS INSTRUMENTS - CON



PTC-8010 Precision Universal Thermocouple and RTD Temperature Calibrator

Features

- Measure or Simulate RTD Types: Pt 385 (100, 200, 500, 1000 ohms) Pt 392, JIS, Ni 120, CU10,
- Measure or Simulate Ten (10) T/C types plus YSI 400 Thermistors
- Read and source modes
- NEMA 4 rated case, rugged design
- RTD simulation works with all pulsed (smart) transmitters
- New ClearBrite High Graphic Display
- 3 Key Martel Menu System
- Store up to nine (9) setpoints for each output function
- RS232 interface