

Temperature vs. Resistance Table

YSI 400 Series Probes

R(25°C) = 2252Ω

Temperature Resistance			Temperature Resistance			Temperature Resistance			Temperature Resistance		
°F	°C	(Ω)	°F	°C	(Ω)	°F	°C	(Ω)	°F	°C	(Ω)
-112.0	-80	1,660,000.00	37.4	3	6,319.00	186.8	86	233.400	336.2	169	27.500
-110.2	-79	1,518,000.00	39.2	4	6,011.00	188.6	87	226.200	338.0	170	26.900
-108.4	-78	1,390,000.00	41.0	5	5,719.00	190.4	88	219.300	339.8	171	26.300
-106.6	-77	1,273,000.00	42.8	6	5,444.00	192.2	89	212.600	341.6	172	25.900
-104.8	-76	1,167,000.00	44.6	7	5,183.00	194.0	90	206.100	343.4	173	25.200
-103.0	-75	1,071,000.00	46.4	8	4,937.00	195.8	91	199.900	345.2	174	24.700
-101.2	-74	982,800.00	48.2	9	4,703.00	197.6	92	193.900	347.0	175	24.200
-99.4	-73	902,700.00	50.0	10	4,482.00	199.4	93	188.100	348.8	176	23.700
-97.6	-72	829,700.00	51.8	11	4,273.00	201.2	94	182.500	350.6	177	23.200
-95.8	-71	763,100.00	53.6	12	4,074.00	203.0	95	177.100	352.4	178	22.800
-94.0	-70	702,300.00	55.4	13	3,886.00	204.8	96	171.900	354.2	179	22.300
-92.2	-69	646,700.00	57.2	14	3,708.00	206.6	97	166.900	356.0	180	21.900
-90.4	-68	595,900.00	59.0	15	3,539.00	208.4	98	162.000	357.8	181	21.400
-88.6	-67	549,400.00	60.8	16	3,378.00	210.2	99	157.300	359.6	182	21.000
-86.8	-66	506,900.00	62.6	17	3,226.00	212.0	100	152.800	361.4	183	20.600
-85.0	-65	467,900.00	64.4	18	3,081.00	213.8	101	148.400	363.2	184	20.200
-83.2	-64	432,200.00	66.2	19	2,944.00	215.6	102	144.200	365.0	185	19.800
-81.4	-63	399,500.00	68.0	20	2,814.00	217.4	103	140.100	366.8	186	19.400
-79.6	-62	369,400.00	69.8	21	2,690.00	219.2	104	136.100	368.6	187	19.000
-77.8	-61	341,800.00	71.6	22	2,572.00	221.0	105	132.300	370.4	188	18.600
-76.0	-60	316,500.00	73.4	23	2,460.00	222.8	106	128.600	372.2	189	18.300
-74.2	-59	293,200.00	75.2	24	2,354.00	224.6	107	125.000	374.0	190	17.900
-72.4	-58	271,700.00	77.0	25	2,252.00	226.4	108	121.600	375.8	191	17.600
-70.6	-57	252,000.00	78.8	26	2,156.00	228.2	109	118.200	377.6	192	17.200
-68.8	-56	233,800.00	80.6	27	2,064.00	230.0	110	115.000	379.4	193	16.900
-67.0	-55	217,100.00	82.4	28	1,977.00	231.8	111	111.800	381.2	194	16.600
-65.2	-54	201,700.00	84.2	29	1,894.00	233.6	112	108.800	383.0	195	16.300
-63.4	-53	187,400.00	86.0	30	1,815.00	235.4	113	105.800	384.8	196	16.000
-61.6	-52	174,300.00	87.8	31	1,739.00	237.2	114	103.000	386.6	197	15.700
-59.8	-51	162,200.00	89.6	32	1,667.00	239.0	115	100.200	388.4	198	15.400
-58.0	-50	151,000.00	91.4	33	1,599.00	240.8	116	97.600	390.2	199	15.100
-56.2	-49	140,600.00	93.2	34	1,533.00	242.6	117	95.000	392.0	200	14.900
-54.4	-48	131,000.00	95.0	35	1,471.00	244.4	118	92.500	393.8	201	14.600
-52.6	-47	122,100.00	96.8	36	1,412.00	246.2	119	90.000	395.6	202	14.300
-50.8	-46	113,900.00	98.6	37	1,355.00	248.0	120	87.700	397.4	203	14.000
-49.0	-45	106,300.00	100.4	38	1,301.00	249.8	121	85.400	399.2	204	13.800
-47.2	-44	99,260.00	102.2	39	1,249.00	251.6	122	83.200	401.0	205	13.500
-45.4	-43	92,720.00	104.0	40	1,200.00	253.4	123	81.100	402.8	206	13.300
-43.6	-42	86,650.00	105.8	41	1,152.00	255.2	124	79.000	404.6	207	13.100
-41.8	-41	81,020.00	107.6	42	1,107.00	257.0	125	77.000	406.4	208	12.800
-40.0	-40	75,790.00	109.4	43	1,064.00	258.8	126	75.000	408.2	209	12.600
-38.2	-39	70,930.00	111.2	44	1,023.00	260.6	127	73.100	410.0	210	12.400
-36.4	-38	66,410.00	113.0	45	983.800	262.4	128	71.300	411.8	211	12.200
-34.6	-37	62,210.00	114.8	46	946.200	264.2	129	69.500	413.6	212	11.900
-32.8	-36	58,300.00	116.6	47	910.200	266.0	130	67.800	415.4	213	11.700
-31.0	-35	54,660.00	118.4	48	875.800	267.8	131	66.100	417.2	214	11.500
-29.2	-34	51,270.00	120.2	49	842.800	269.6	132	64.400	419.0	215	11.300
-27.4	-33	48,110.00	122.0	50	811.300	271.4	133	62.900	420.8	216	11.100
-25.6	-32	45,170.00	123.8	51	781.100	273.2	134	61.300	422.6	217	10.900
-23.8	-31	42,420.00	125.6	52	752.200	275.0	135	59.800	424.4	218	10.800
-22.0	-30	39,860.00	127.4	53	724.500	276.8	136	58.400	426.2	219	10.600
-20.2	-29	37,470.00	129.2	54	697.900	278.6	137	57.000	428.0	220	10.400
-18.4	-28	35,240.00	131.0	55	672.500	280.4	138	55.600	429.8	221	10.200
-16.6	-27	33,150.00	132.8	56	648.100	282.2	139	54.300	431.6	222	10.100
-14.8	-26	31,200.00	134.6	57	624.800	284.0	140	53.000	433.4	223	9.900
-13.0	-25	29,380.00	136.4	58	602.400	285.8	141	51.700	435.2	224	9.700
-11.2	-24	27,670.00	138.2	59	580.900	287.6	142	50.500	437.0	225	9.600
-9.4	-23	26,070.00	140.0	60	560.300	289.4	143	49.300	438.8	226	9.400
-7.6	-22	24,580.00	141.8	61	540.500	291.2	144	48.200	440.6	227	9.200
-5.8	-21	23,180.00	143.6	62	521.500	293.0	145	47.000	442.4	228	9.100
-4.0	-20	21,870.00	145.4	63	503.300	294.8	146	45.900	444.2	229	8.900
-2.2	-19	20,640.00	147.2	64	485.800	296.6	147	44.900	446.0	230	8.800
-0.4	-18	19,480.00	149.0	65	469.000	298.4	148	43.800	447.8	231	8.700
1.4	-17	18,400.00	150.8	66	452.900	300.2	149	42.800	449.6	232	8.500
3.2	-16	17,390.00	152.6	67	437.400	302.0	150	41.800	451.4	233	8.400
5.0	-15	16,430.00	154.4	68	422.500	303.8	151	40.900	453.2	234	8.200
6.8	-14	15,540.00	156.2	69	408.200	305.6	152	40.000	455.0	235	8.100

8.6	-13	14,700.00	158.0	70	394.500	307.4	153	39.100	456.8	236	8.000
10.4	-12	13,910.00	159.8	71	381.200	309.2	154	38.200	458.6	237	7.900
12.2	-11	13,160.00	161.6	72	368.500	311.0	155	37.300	460.4	238	7.700
14.0	-10	12,460.00	163.4	73	356.200	312.8	156	36.500	462.2	239	7.600
15.8	-9	11,810.00	165.2	74	344.500	314.6	157	35.700	464.0	240	7.500
17.6	-8	11,190.00	167.0	75	333.100	316.4	158	34.900	465.8	241	7.400
19.4	-7	10,600.00	168.8	76	322.300	318.2	159	34.100	467.6	242	7.300
21.2	-6	10,050.00	170.6	77	311.800	320.0	160	33.400	469.4	243	7.100
23.0	-5	9,534.00	172.4	78	301.700	321.8	161	32.700	471.2	244	7.000
24.8	-4	9,046.00	174.2	79	292.000	323.6	162	32.000	473.0	245	6.900
26.6	-3	8,586.00	176.0	80	282.700	325.4	163	31.300	474.8	246	6.800
28.4	-2	8,151.00	177.8	81	273.700	327.2	164	30.600	476.6	247	6.700
30.2	-1	7,741.00	179.6	82	265.000	329.0	165	29.900	478.4	248	6.600
32.0	0	7,355.00	181.4	83	256.700	330.8	166	29.300	480.2	249	6.500
33.8	1	6,989.00	183.2	84	248.600	332.6	167	28.700	482.0	250	6.400
35.6	2	6,644.00	185.0	85	240.900	334.4	168	28.100			

[YSI400 Series Probes](#) [Thermistor Thermometers](#) [Additional Thermistor Tables](#)