

# Pt1000 Resistance Chart

You measured a resistance of 300.07  $\Omega$  with a Pt1000 and now want to know what temperature this corresponds to. Answer: -173  $^{\circ}\text{C}$

$\theta$ in $^{\circ}\text{C}$	Resistance in $\Omega$										$\theta$ in $^{\circ}\text{C}$
	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	
-200	185.2										-200
-190	228.3	224	219.7	215.4	211.1	206.8	202.5	198.2	193.8	189.5	-190
-180	271	266.7	262.4	258.2	253.9	249.7	245.4	241.1	236.8	232.5	-180
-170	313.4	309.1	304.9	300.7	296.4	292.2	288	283.7	279.5	275.2	-170
-160	355.4	351.2	347	342.8	338.6	334.4	330.2	326	321.8	317.6	-160
-150	397.2	393.1	388.9	384.7	380.5	376.4	372.2	368	363.8	359.6	-150
-140	438.8	434.6	430.5	426.3	422.2	418	413.9	409.7	405.6	401.4	-140
-130	480	475.9	471.8	467.7	463.6	459.4	455.3	451.2	447	442.9	-130
-120	521.1	517	512.9	508.8	504.7	500.6	496.5	492.4	488.3	484.2	-120
-110	561.9	557.9	553.8	549.7	545.6	541.5	537.5	533.4	529.3	525.2	-110
-100	602.6	598.5	594.4	590.4	586.3	582.3	578.2	574.1	570.1	566	-100
-90	643	639	634.9	630.9	626.8	622.8	618.8	614.7	610.7	606.6	-90
-80	683.3	679.2	675.2	671.2	667.2	663.1	659.1	655.1	651.1	647	-80
-70	723.3	719.3	715.3	711.3	707.3	703.3	699.3	695.3	691.3	687.3	-70
-60	763.3	759.3	755.3	751.3	747.3	743.3	739.3	735.3	731.3	727.3	-60
-50	803.1	799.1	795.1	791.1	787.2	783.2	779.2	775.2	771.2	767.3	-50
-40	842.7	838.7	834.8	830.8	826.9	822.9	818.9	815	811	807	-40
-30	882.2	878.3	874.3	870.4	866.4	862.5	858.5	854.6	850.6	846.7	-30
-20	921.6	917.7	913.7	909.8	905.9	901.9	898	894	890.1	886.2	-20
-10	960.9	956.9	953	949.1	945.2	941.2	937.3	933.4	929.5	925.5	-10
0	1,000	996.1	992.2	988.3	984.4	980.4	976.5	972.6	968.7	964.8	0

$\theta$ in °C	0	1	2	3	4	5	6	7	8	9	$\theta$ in °C
0	1,000.0	1,003.9	1,007.8	1,011.7	1,015.6	1,019.5	1,023.4	1,027.3	1,031.2	1,035.1	0
10	1,039.0	1,042.9	1,046.8	1,050.7	1,054.6	1,058.5	1,062.4	1,066.3	1,070.2	1,074.0	10
20	1,077.9	1,081.8	1,085.7	1,089.6	1,093.5	1,097.3	1,101.2	1,105.1	1,109.0	1,112.9	20
30	1,116.7	1,120.6	1,124.5	1,128.3	1,132.2	1,136.1	1,140.0	1,143.8	1,147.7	1,151.5	30
40	1,155.4	1,159.3	1,163.1	1,167.0	1,170.8	1,174.7	1,178.6	1,182.4	1,186.3	1,190.1	40
50	1,194.0	1,197.8	1,201.7	1,205.5	1,209.4	1,213.2	1,217.1	1,220.9	1,224.7	1,228.6	50
60	1,232.4	1,236.3	1,240.1	1,243.9	1,247.8	1,251.6	1,255.4	1,259.3	1,263.1	1,266.9	60
70	1,270.8	1,274.6	1,278.4	1,282.2	1,286.1	1,289.9	1,293.7	1,297.5	1,301.3	1,305.2	70
80	1,309.0	1,312.8	1,316.6	1,320.4	1,324.2	1,328.0	1,331.8	1,335.7	1,339.5	1,343.3	80
90	1,347.1	1,350.9	1,354.7	1,358.5	1,362.3	1,366.1	1,369.9	1,373.7	1,377.5	1,381.3	90
100	1,385.1	1,388.8	1,392.6	1,396.4	1,400.2	1,404.0	1,407.8	1,411.6	1,415.4	1,419.1	100
110	1,422.9	1,426.7	1,430.5	1,434.3	1,438.0	1,441.8	1,445.6	1,449.4	1,453.1	1,456.9	110
120	1,460.7	1,464.4	1,468.2	1,472.0	1,475.7	1,479.5	1,483.3	1,487.0	1,490.8	1,494.6	120
130	1,498.3	1,502.1	1,505.8	1,509.6	1,513.3	1,517.1	1,520.8	1,524.6	1,528.3	1,532.1	130
140	1,535.8	1,539.6	1,543.3	1,547.1	1,550.8	1,554.6	1,558.3	1,562.0	1,565.8	1,569.5	140
150	1,573.3	1,577.0	1,580.7	1,584.5	1,588.2	1,591.9	1,595.6	1,599.4	1,603.1	1,606.8	150
160	1,610.5	1,614.3	1,618.0	1,621.7	1,625.4	1,629.1	1,632.9	1,636.6	1,640.3	1,644.0	160
170	1,647.7	1,651.4	1,655.1	1,658.9	1,662.6	1,666.3	1,670.0	1,673.7	1,677.4	1,681.1	170
180	1,684.8	1,688.5	1,692.2	1,695.9	1,699.6	1,703.3	1,707.0	1,710.7	1,714.3	1,718.0	180
190	1,721.7	1,725.4	1,729.1	1,732.8	1,736.5	1,740.2	1,743.8	1,747.5	1,751.2	1,754.9	190
200	1,758.6	1,762.2	1,765.9	1,769.6	1,773.3	1,776.9	1,780.6	1,784.3	1,787.9	1,791.6	200
210	1,795.3	1,798.9	1,802.6	1,806.3	1,809.9	1,813.6	1,817.2	1,820.9	1,824.6	1,828.2	210
220	1,831.9	1,835.5	1,839.2	1,842.8	1,846.5	1,850.1	1,853.8	1,857.4	1,861.1	1,864.7	220
230	1,868.4	1,872.0	1,875.6	1,879.3	1,882.9	1,886.6	1,890.2	1,893.8	1,897.5	1,901.1	230
240	1,904.7	1,908.4	1,912.0	1,915.6	1,919.2	1,922.9	1,926.5	1,930.1	1,933.7	1,937.4	240
250	1,941.0	1,944.6	1,948.2	1,951.8	1,955.5	1,959.1	1,962.7	1,966.3	1,969.9	1,973.5	250

$\theta$ in °C	0	1	2	3	4	5	6	7	8	9	$\theta$ in °C
260	1,977.1	1,980.7	1,984.3	1,987.9	1,991.5	1,995.1	1,998.7	2,002.3	2,005.9	2,009.5	260
270	2,013.1	2,016.7	2,020.3	2,023.9	2,027.5	2,031.1	2,034.7	2,038.3	2,041.9	2,045.5	270
280	2,049.0	2,052.6	2,056.2	2,059.8	2,063.4	2,067.0	2,070.5	2,074.1	2,077.7	2,081.3	280
290	2,084.8	2,088.4	2,092.0	2,095.6	2,099.1	2,102.7	2,106.3	2,109.8	2,113.4	2,117.0	290
300	2,120.5	2,124.1	2,127.6	2,131.2	2,134.8	2,138.3	2,141.9	2,145.4	2,149.0	2,152.5	300
310	2,156.1	2,159.6	2,163.2	2,166.7	2,170.3	2,173.8	2,177.4	2,180.9	2,184.4	2,188.0	310
320	2,191.5	2,195.1	2,198.6	2,202.1	2,205.7	2,209.2	2,212.7	2,216.3	2,219.8	2,223.3	320
330	2,226.8	2,230.4	2,233.9	2,237.4	2,240.9	2,244.5	2,248.0	2,251.5	2,255.0	2,258.5	330
340	2,262.1	2,265.6	2,269.1	2,272.6	2,276.1	2,279.6	2,283.1	2,286.6	2,290.2	2,293.7	340
350	2,297.2	2,300.7	2,304.2	2,307.7	2,311.2	2,314.7	2,318.2	2,321.7	2,325.2	2,328.7	350
360	2,332.1	2,335.6	2,339.1	2,342.6	2,346.1	2,349.6	2,353.1	2,356.6	2,360.0	2,363.5	360
370	2,367.0	2,370.5	2,374.0	2,377.4	2,380.9	2,384.4	2,387.9	2,391.3	2,394.8	2,398.3	370
380	2,401.8	2,405.2	2,408.7	2,412.2	2,415.6	2,419.1	2,422.6	2,426.0	2,429.5	2,432.9	380
390	2,436.4	2,439.9	2,443.3	2,446.8	2,450.2	2,453.7	2,457.1	2,460.6	2,464.0	2,467.5	390
400	2,470.9	2,474.4	2,477.8	2,481.3	2,484.7	2,488.1	2,491.6	2,495.0	2,498.5	2,501.9	400
410	2,505.3	2,508.8	2,512.2	2,515.6	2,519.1	2,522.5	2,525.9	2,529.3	2,532.8	2,536.2	410
420	2,539.6	2,543.0	2,546.5	2,549.9	2,553.3	2,556.7	2,560.1	2,563.5	2,567.0	2,570.4	420
430	2,573.8	2,577.2	2,580.6	2,584.0	2,587.4	2,590.8	2,594.2	2,597.6	2,601.0	2,604.4	430
440	2,607.8	2,611.2	2,614.6	2,618.0	2,621.4	2,624.8	2,628.2	2,631.6	2,635.0	2,638.4	440
450	2,641.8	2,645.2	2,648.6	2,652.0	2,655.3	2,658.7	2,662.1	2,665.5	2,668.9	2,672.2	450
460	2,675.6	2,679.0	2,682.4	2,685.7	2,689.1	2,692.5	2,695.9	2,699.2	2,702.6	2,706.0	460
470	2,709.3	2,712.7	2,716.1	2,719.4	2,722.8	2,726.1	2,729.5	2,732.9	2,736.2	2,739.6	470
480	2,742.9	2,746.3	2,749.6	2,753.0	2,756.3	2,759.7	2,763.0	2,766.4	2,769.7	2,773.1	480
490	2,776.4	2,779.8	2,783.1	2,786.4	2,789.8	2,793.1	2,796.4	2,799.8	2,803.1	2,806.4	490
500	2,809.8	2,813.1	2,816.4	2,819.8	2,823.1	2,826.4	2,829.7	2,833.1	2,836.4	2,839.7	500
$\theta$ in °C	0	1	2	3	4	5	6	7	8	9	$\theta$ in °C

$\theta$ in °C	0	1	2	3	4	5	6	7	8	9	$\theta$ in °C
510	2,843.0	2,846.3	2,849.7	2,853.0	2,856.3	2,859.6	2,862.9	2,866.2	2,869.5	2,872.9	510
520	2,876.2	2,879.5	2,882.8	2,886.1	2,889.4	2,892.7	2,896.0	2,899.3	2,902.6	2,905.9	520
530	2,909.2	2,912.5	2,915.8	2,919.1	2,922.4	2,925.6	2,928.9	2,932.2	2,935.5	2,938.8	530
540	2,942.1	2,945.4	2,948.6	2,951.9	2,955.2	2,958.5	2,961.8	2,965.0	2,968.3	2,971.6	540
550	2,974.9	2,978.1	2,981.4	2,984.7	2,988.0	2,991.2	2,994.5	2,997.8	3,001.0	3,004.3	550
560	3,007.5	3,010.8	3,014.1	3,017.3	3,020.6	3,023.8	3,027.1	3,030.3	3,033.6	3,036.9	560
570	3,040.1	3,043.4	3,046.6	3,049.8	3,053.1	3,056.3	3,059.6	3,062.8	3,066.1	3,069.3	570
580	3,072.5	3,075.8	3,079.0	3,082.3	3,085.5	3,088.7	3,092.0	3,095.2	3,098.4	3,101.6	580
590	3,104.9	3,108.1	3,111.3	3,114.5	3,117.8	3,121.0	3,124.2	3,127.4	3,130.6	3,133.9	590
600	3,137.1	3,140.3	3,143.5	3,146.7	3,149.9	3,153.1	3,156.4	3,159.6	3,162.8	3,166.0	600
610	3,169.2	3,172.4	3,175.6	3,178.8	3,182.0	3,185.2	3,188.4	3,191.6	3,194.8	3,198.0	610
620	3,201.2	3,204.3	3,207.5	3,210.7	3,213.9	3,217.1	3,220.3	3,223.5	3,226.7	3,229.8	620
630	3,233.0	3,236.2	3,239.4	3,242.6	3,245.7	3,248.9	3,252.1	3,255.3	3,258.4	3,261.6	630
640	3,264.8	3,267.9	3,271.1	3,274.3	3,277.4	3,280.6	3,283.8	3,286.9	3,290.1	3,293.2	640
650	3,296.4	3,299.6	3,302.7	3,305.9	3,309.0	3,312.2	3,315.3	3,318.5	3,321.6	3,324.8	650
660	3,327.9	3,331.1	3,334.2	3,337.4	3,340.5	3,343.6	3,346.8	3,349.9	3,353.1	3,356.2	660
670	3,359.3	3,362.5	3,365.6	3,368.7	3,371.8	3,375.0	3,378.1	3,381.2	3,384.4	3,387.5	670
680	3,390.6	3,393.7	3,396.9	3,400.0	3,403.1	3,406.2	3,409.3	3,412.4	3,415.6	3,418.7	680
690	3,421.8	3,424.9	3,428.0	3,431.1	3,434.2	3,437.3	3,440.4	3,443.5	3,446.6	3,449.7	690
700	3,452.8	3,455.9	3,459.0	3,462.1	3,465.2	3,468.3	3,471.4	3,474.5	3,477.6	3,480.7	700
710	3,483.8	3,486.9	3,489.9	3,493.0	3,496.1	3,499.2	3,502.3	3,505.4	3,508.4	3,511.5	710
720	3,514.6	3,517.7	3,520.8	3,523.8	3,526.9	3,530.0	3,533.0	3,536.1	3,539.2	3,542.2	720
730	3,545.3	3,548.4	3,551.4	3,554.5	3,557.6	3,560.6	3,563.7	3,566.7	3,569.8	3,572.8	730
740	3,575.9	3,579.0	3,582.0	3,585.1	3,588.1	3,591.2	3,594.2	3,597.2	3,600.3	3,603.3	740
750	3,606.4	3,609.4	3,612.5	3,615.5	3,618.5	3,621.6	3,624.6	3,627.6	3,630.7	3,633.7	750
$\theta$ in °C	0	1	2	3	4	5	6	7	8	9	$\theta$ in °C

$\theta$ in °C	0	1	2	3	4	5	6	7	8	9	$\theta$ in °C
760	3,636.7	3,639.8	3,642.8	3,645.8	3,648.9	3,651.9	3,654.9	3,657.9	3,661.0	3,664.0	760
770	3,667.0	3,670.0	3,673.0	3,676.0	3,679.1	3,682.1	3,685.1	3,688.1	3,691.1	3,694.1	770
780	3,697.1	3,700.1	3,703.1	3,706.1	3,709.1	3,712.1	3,715.1	3,718.1	3,721.1	3,724.1	780
790	3,727.1	3,730.1	3,733.1	3,736.1	3,739.1	3,742.1	3,745.1	3,748.1	3,751.1	3,754.1	790
800	3,757.0	3,760.0	3,763.0	3,766.0	3,769.0	3,771.9	3,774.9	3,777.9	3,780.9	3,783.9	800
810	3,786.8	3,789.8	3,792.8	3,795.7	3,798.7	3,801.7	3,804.6	3,807.6	3,810.6	3,813.5	810
820	3,816.5	3,819.5	3,822.4	3,825.4	3,828.3	3,831.3	3,834.2	3,837.2	3,840.1	3,843.1	820
830	3,846.0	3,849.0	3,851.9	3,854.9	3,857.8	3,860.8	3,863.7	3,866.7	3,869.6	3,872.5	830
840	3,875.5	3,878.4	3,881.4	3,884.3	3,887.2	3,890.2	3,893.1	3,896.0	3,899.0	3,901.9	840
850	3,904.8										850
$\theta$ in °C	0	1	2	3	4	5	6	7	8	9	$\theta$ in °C

Pt1000

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