# Resistance vs. Temperature Table for DIN-IEC-751 Platinum RTDs

## 100 Ohm With Temperature Coefficient

| ITS-90 ℃ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ITS-90 ℃ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| -200 | 18.52 | | | | | | | | | | -200 |
| -190 | 22.83 | 22.40 | 21.97 | 21.54 | 21.11 | 20.68 | 20.25 | 19.82 | 19.38 | 18.95 | -190 |
| -180 | 27.10 | 26.67 | 26.24 | 25.82 | 25.39 | 24.97 | 24.54 | 24.11 | 23.68 | 23.25 | -180 |
| -170 | 31.34 | 30.91 | 30.49 | 30.07 | 39.64 | 29.22 | 28.80 | 28.37 | 27.95 | 27.52 | -170 |
| -160 | 35.54 | 35.12 | 34.70 | 34.28 | 33.86 | 33.44 | 33.02 | 32.60 | 32.18 | 31.76 | -160 |
| -150 | 39.72 | 39.31 | 38.89 | 38.47 | 38.05 | 37.64 | 37.22 | 36.80 | 36.38 | 35.96 | -150 |
| -140 | 43.88 | 43.46 | 43.05 | 42.63 | 42.22 | 41.80 | 41.39 | 40.97 | 40.56 | 40.14 | -140 |
| -130 | 48.00 | 47.59 | 47.18 | 46.77 | 46.36 | 45.94 | 45.53 | 45.12 | 44.70 | 44.29 | -130 |
| -120 | 52.11 | 51.70 | 51.29 | 50.88 | 50.47 | 50.06 | 49.65 | 49.24 | 48.83 | 48.42 | -120 |
| -110 | 56.19 | 55.79 | 55.38 | 54.97 | 54.56 | 54.15 | 53.75 | 53.34 | 52.93 | 52.52 | -110 |
| -100. | 60.26 | 59.85 | 59.44 | 59.04 | 58.63 | 58.23 | 57.82 | 57.41 | 57.01 | 56.60 | -100. |
| -90 | 64.30 | 63.90 | 63.49 | 63.09 | 62.68 | 62.28 | 61.88 | 61.47 | 61.07 | 60.66 | -90 |
| -80 | 68.33 | 67.92 | 67.52 | 67.12 | 66.72 | 66.31 | 65.91 | 65.51 | 65.11 | 64.70 | -80 |
| -70 | 72.33 | 71.93 | 71.53 | 71.13 | 70.73 | 70.33 | 69.93 | 69.53 | 69.13 | 68.73 | -70 |
| -60 | 76.33 | 75.93 | 75.53 | 75.13 | 74.73 | 74.33 | 73.93 | 73.53 | 73.13 | 72.73 | -60 |
| -50 | 80.31 | 79.91 | 79.51 | 79.11 | 78.72 | 78.32 | 77.92 | 77.52 | 77.12 | 76.73 | -50 |
| -40 | 84.27 | 83.87 | 83.48 | 83.08 | 82.69 | 82.29 | 81.89 | 81.50 | 81.10 | 80.70 | -40 |
| -30 | 88.22 | 87.83 | 87.43 | 87.04 | 86.64 | 86.25 | 85.85 | 85.46 | 85.06 | 84.67 | -30 |
| -20 | 92.16 | 91.77 | 91.37 | 90.98 | 90.59 | 90.19 | 89.80 | 89.40 | 89.01 | 88.62 | -20 |
| -10 | 96.09 | 95.69 | 95.30 | 94.91 | 94.52 | 94.12 | 93.73 | 93.34 | 92.95 | 92.55 | -10 |
| 0 | 100.00 | 99.61 | 99.22 | 98.83 | 98.44 | 98.04 | 97.65 | 97.26 | 96.87 | 96.48 | 0 |
| 0 | 100.00 | 100.39 | 100.78 | 101.17 | 101.56 | 101.95 | 102.34 | 102.73 | 103.12 | 103.51 | 0 |
| 10 | 103.90 | 104.29 | 104.68 | 105.07 | 105.46 | 105.85 | 106.24 | 106.63 | 107.02 | 107.40 | 10 |
| 20 | 107.79 | 108.18 | 108.57 | 108.96 | 109.35 | 109.73 | 110.12 | 110.51 | 110.90 | 111.29 | 20 |
| 30 | 111.67 | 112.06 | 112.45 | 112.83 | 113.22 | 113.61 | 114.00 | 114.38 | 114.77 | 115.15 | 30 |
| 40 | 115.54 | 115.93 | 116.31 | 116.70 | 117.08 | 117.47 | 117.86 | 118.24 | 118.63 | 119.01 | 40 |
| 50 | 119.40 | 119.78 | 120.17 | 120.55 | 120.94 | 121.32 | 121.71 | 122.09 | 122.47 | 122.86 | 50 |
| 60 | 123.24 | 123.63 | 124.01 | 124.39 | 124.78 | 125.16 | 125.54 | 125.93 | 126.31 | 126.69 | 60 |
| 70 | 127.08 | 127.46 | 127.84 | 128.22 | 128.61 | 128.99 | 129.37 | 129.75 | 130.13 | 130.52 | 70 |
| 80 | 130.90 | 131.28 | 131.66 | 132.04 | 132.42 | 132.80 | 133.18 | 133.57 | 133.95 | 134.33 | 80 |
| 90 | 134.71 | 135.09 | 135.47 | 135.85 | 136.23 | 136.61 | 136.99 | 137.37 | 137.75 | 138.13 | 90 |
| 100 | 138.51 | 138.88 | 139.26 | 139.64 | 140.02 | 140.40 | 140.78 | 141.16 | 141.54 | 141.91 | 100 |
| 110 | 142.29 | 142.67 | 143.05 | 143.43 | 143.80 | 144.18 | 144.56 | 144.94 | 145.31 | 145.69 | 110 |
| 120 | 146.07 | 146.44 | 146.82 | 147.20 | 147.57 | 147.95 | 148.33 | 148.70 | 149.08 | 149.46 | 120 |
| 130 | 149.83 | 150.21 | 150.58 | 150.96 | 151.33 | 151.71 | 152.08 | 152.46 | 152.83 | 153.21 | 130 |
| 140 | 153.58 | 153.96 | 154.33 | 154.71 | 155.08 | 155.46 | 155.83 | 156.20 | 156.58 | 156.95 | 140 |

# Resistance vs. Temperature Table for DIN-IEC-751 Platinum RTDs

## 100 Ohm With Temperature Coefficient

| ITS-90 ℃ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ITS-90 ℃ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 150 | 157.33 | 157.70 | 158.07 | 158.45 | 158.82 | 159.19 | 159.56 | 159.94 | 160.31 | 160.68 | 150 |
| 160 | 161.05 | 161.43 | 161.80 | 162.17 | 162.54 | 162.91 | 163.29 | 163.66 | 164.03 | 164.40 | 160 |
| 170 | 164.77 | 165.14 | 165.51 | 165.89 | 166.26 | 166.63 | 167.00 | 167.37 | 167.74 | 168.11 | 170 |
| 180 | 168.48 | 168.85 | 169.22 | 169.59 | 169.96 | 170.33 | 170.70 | 171.07 | 171.43 | 171.80 | 180 |
| 190 | 172.17 | 172.54 | 172.91 | 173.28 | 173.65 | 174.02 | 174.38 | 174.75 | 175.12 | 175.49 | 190 |
| 200 | 175.86 | 176.22 | 176.59 | 176.96 | 177.33 | 177.69 | 178.06 | 178.43 | 178.79 | 179.16 | 200 |
| 210 | 179.53 | 179.89 | 180.26 | 180.63 | 180.99 | 181.36 | 181.72 | 182.09 | 182.46 | 182.82 | 210 |
| 220 | 183.19 | 183.55 | 183.92 | 184.28 | 184.65 | 185.01 | 185.38 | 185.74 | 186.11 | 186.47 | 220 |
| 230 | 186.84 | 187.20 | 187.56 | 187.93 | 188.29 | 188.66 | 189.02 | 189.38 | 189.75 | 190.11 | 230 |
| 240 | 190.47 | 190.84 | 191.20 | 191.56 | 191.92 | 192.29 | 192.65 | 193.01 | 193.37 | 193.74 | 240 |
| 250 | 194.10 | 194.46 | 194.82 | 195.18 | 195.55 | 195.91 | 196.27 | 196.63 | 196.99 | 197.35 | 250 |
| 260 | 197.71 | 198.07 | 198.43 | 198.79 | 199.15 | 199.51 | 199.87 | 200.23 | 200.59 | 200.95 | 260 |
| 270 | 201.31 | 201.67 | 202.03 | 202.39 | 202.75 | 203.11 | 203.47 | 203.83 | 204.19 | 204.55 | 270 |
| 280 | 204.90 | 205.26 | 205.62 | 205.98 | 206.34 | 206.70 | 207.05 | 207.41 | 207.77 | 208.13 | 280 |
| 290 | 208.48 | 208.84 | 209.20 | 209.56 | 209.91 | 21.27 | 210.63 | 210.98 | 211.34 | 211.70 | 290 |
| 300 | 212.05 | 212.41 | 212.76 | 213.12 | 213.48 | 213.83 | 214.19 | 214.54 | 214.90 | 215.25 | 300 |
| 310 | 215.61 | 215.96 | 216.32 | 216.67 | 217.03 | 217.38 | 217.74 | 218.09 | 218.44 | 218.80 | 310 |
| 320 | 219.15 | 219.51 | 219.86 | 220.21 | 220.57 | 220.92 | 221.27 | 221.63 | 221.98 | 222.33 | 320 |
| 330 | 222.68 | 223.04 | 223.39 | 223.74 | 224.09 | 224.45 | 224.80 | 225.15 | 225.50 | 225.85 | 330 |
| 340 | 226.21 | 226.56 | 226.91 | 227.26 | 227.61 | 227.96 | 228.31 | 228.66 | 229.02 | 229.37 | 340 |
| 350 | 229.72 | 230.07 | 230.42 | 230.77 | 231.12 | 231.47 | 231.82 | 232.17 | 232.52 | 232.87 | 350 |
| 360 | 233.21 | 233.56 | 233.91 | 234.26 | 234.61 | 234.96 | 235.31 | 235.66 | 236.00 | 236.35 | 360 |
| 370 | 236.70 | 237.05 | 237.40 | 237.74 | 238.09 | 238.44 | 238.79 | 239.13 | 239.48 | 239.83 | 370 |
| 380 | 240.18 | 240.52 | 240.87 | 241.22 | 241.56 | 241.91 | 242.26 | 242.60 | 242.95 | 243.29 | 380 |
| 390 | 243.64 | 243.99 | 244.33 | 244.68 | 245.02 | 245.37 | 245.71 | 246.06 | 246.40 | 246.75 | 390 |
| 400 | 247.09 | 247.44 | 247.78 | 248.13 | 248.47 | 248.81 | 249.16 | 249.50 | 249.85 | 250.19 | 400 |
| 410 | 250.53 | 250.88 | 251.22 | 251.56 | 251.91 | 252.25 | 252.59 | 252.93 | 253.28 | 253.62 | 410 |
| 420 | 253.96 | 254.30 | 254.65 | 254.99 | 255.33 | 255.67 | 256.01 | 256.35 | 256.70 | 257.04 | 420 |
| 430 | 257.38 | 257.72 | 258.06 | 258.40 | 258.74 | 259.08 | 259.42 | 259.76 | 260.10 | 260.44 | 430 |
| 440 | 260.78 | 261.12 | 261.46 | 261.80 | 262.14 | 262.48 | 262.82 | 263.16 | 263.50 | 263.84 | 440 |
| 450 | 264.18 | 264.52 | 264.86 | 265.20 | 265.53 | 265.87 | 266.21 | 266.55 | 266.89 | 267.22 | 450 |
| 460 | 267.56 | 567.90 | 268.24 | 268.57 | 268.91 | 269.25 | 269.59 | 269.92 | 270.26 | 270.60 | 460 |
| 470 | 270.93 | 271.27 | 271.61 | 271.94 | 272.28 | 272.61 | 272.95 | 273.29 | 273.62 | 273.96 | 470 |
| 480 | 274.29 | 274.63 | 274.96 | 275.30 | 275.63 | 275.97 | 276.30 | 276.64 | 276.97 | 277.31 | 480 |
| 490 | 277.64 | 277.98 | 278.31 | 278.64 | 278.98 | 279.31 | 279.64 | 279.98 | 280.31 | 280.64 | 490 |
| 500 | 280.98 | 281.31 | 281.64 | 281.98 | 282.31 | 282.64 | 282.97 | 283.31 | 283.64 | 283.97 | 500 |

# Resistance vs. Temperature Table for DIN-IEC-751 Platinum RTDs

### 100 Ohm With Temperature Coefficient

| ITS-90 ℃ | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ITS-90 ℃ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 510 | 284.30 | 284.63 | 284.97 | 285.30 | 285.63 | 285.96 | 286.29 | 286.62 | 286.95 | 287.29 | 510 |
| 520 | 287.62 | 287.95 | 288.28 | 288.61 | 288.94 | 289.27 | 289.60 | 289.93 | 290.26 | 290.59 | 520 |
| 530 | 290.92 | 291.25 | 291.58 | 291.91 | 292.24 | 292.56 | 292.89 | 293.22 | 293.55 | 293.88 | 530 |
| 540 | 294.21 | 294.54 | 294.86 | 295.19 | 295.52 | 295.85 | 296.18 | 296.50 | 296.83 | 297.16 | 540 |
| 550 | 297.49 | 297.81 | 298.14 | 298.47 | 298.80 | 299.12 | 299.45 | 299.78 | 300.10 | 300.43 | 550 |
| 560 | 300.75 | 301.08 | 301.41 | 301.73 | 302.06 | 302.38 | 302.71 | 303.03 | 303.36 | 303.69 | 560 |
| 570 | 304.01 | 304.34 | 304.66 | 304.98 | 305.31 | 305.63 | 305.96 | 306.28 | 306.61 | 306.93 | 570 |
| 580 | 307.25 | 307.58 | 307.90 | 308.23 | 308.55 | 308.87 | 309.20 | 309.52 | 309.84 | 310.16 | 580 |
| 590 | 310.49 | 310.81 | 311.13 | 311.45 | 311.78 | 312.10 | 312.42 | 312.74 | 313.06 | 313.39 | 590 |
| 600 | 313.71 | 314.03 | 314.35 | 314.67 | 314.99 | 315.31 | 315.64 | 315.96 | 316.28 | 316.60 | 600 |
| 610 | 316.92 | 317.24 | 317.56 | 317.88 | 318.20 | 318.52 | 318.84 | 319.16 | 319.48 | 319.80 | 610 |
| 620 | 320.12 | 320.43 | 320.75 | 321.07 | 321.39 | 321.71 | 322.03 | 322.35 | 322.67 | 322.98 | 620 |
| 630 | 323.30 | 323.62 | 323.94 | 324.26 | 324.57 | 324.89 | 325.21 | 325.53 | 325.84 | 326.16 | 630 |
| 640 | 326.48 | 326.79 | 327.11 | 327.43 | 327.74 | 328.06 | 328.38 | 328.69 | 329.01 | 329.32 | 640 |
| 650 | 329.64 | | | | | | | | | | 650 |