

| °C   | Ω      | °C  | Ω      | °C  | Ω      | °C  | Ω      |
|------|--------|-----|--------|-----|--------|-----|--------|
| -200 | 18.52  | 20  | 107.79 | 240 | 190.47 | 460 | 267.56 |
| -195 | 20.68  | 25  | 109.73 | 245 | 192.29 | 465 | 269.25 |
| -190 | 22.83  | 30  | 111.67 | 250 | 194.10 | 470 | 270.93 |
| -185 | 24.97  | 35  | 113.61 | 255 | 195.91 | 475 | 272.61 |
| -180 | 27.10  | 40  | 115.54 | 260 | 197.71 | 480 | 274.29 |
| -175 | 29.22  | 45  | 117.47 | 265 | 199.51 | 485 | 275.97 |
| -170 | 31.33  | 50  | 119.40 | 270 | 201.31 | 490 | 277.64 |
| -165 | 33.44  | 55  | 121.32 | 275 | 203.11 | 495 | 279.31 |
| -160 | 35.54  | 60  | 123.24 | 280 | 204.90 | 500 | 280.98 |
| -155 | 37.64  | 65  | 125.16 | 285 | 206.70 | 505 | 282.64 |
| -150 | 39.72  | 70  | 127.08 | 290 | 208.48 | 510 | 284.30 |
| -145 | 41.80  | 75  | 128.99 | 295 | 210.27 | 515 | 285.96 |
| -140 | 43.88  | 80  | 130.90 | 300 | 212.05 | 520 | 287.62 |
| -135 | 45.94  | 85  | 132.80 | 305 | 213.83 | 525 | 289.27 |
| -130 | 48.00  | 90  | 134.71 | 310 | 215.61 | 530 | 290.92 |
| -125 | 50.06  | 95  | 136.61 | 315 | 217.38 | 535 | 292.56 |
| -120 | 52.11  | 100 | 138.51 | 320 | 219.15 | 540 | 294.21 |
| -115 | 54.15  | 105 | 140.40 | 325 | 220.92 | 545 | 295.85 |
| -110 | 56.19  | 110 | 142.29 | 330 | 222.69 | 550 | 297.49 |
| -105 | 58.23  | 115 | 144.18 | 335 | 224.45 | 555 | 299.12 |
| -100 | 60.26  | 120 | 146.07 | 340 | 226.21 | 560 | 300.75 |
| -95  | 62.28  | 125 | 147.95 | 345 | 227.96 | 565 | 302.38 |
| -90  | 64.30  | 130 | 149.83 | 350 | 229.72 | 570 | 304.01 |
| -85  | 66.31  | 135 | 151.71 | 355 | 231.47 | 575 | 305.63 |
| -80  | 68.33  | 140 | 153.58 | 360 | 233.21 | 580 | 307.25 |
| -75  | 70.33  | 145 | 155.46 | 365 | 234.96 | 585 | 308.87 |
| -70  | 72.33  | 150 | 157.33 | 370 | 236.70 | 590 | 310.49 |
| -65  | 74.33  | 155 | 159.19 | 375 | 238.44 | 595 | 312.10 |
| -60  | 76.33  | 160 | 161.05 | 380 | 240.18 | 600 | 313.71 |
| -55  | 78.32  | 165 | 162.91 | 385 | 241.91 | 605 | 315.31 |
| -50  | 80.31  | 170 | 164.77 | 390 | 243.64 | 610 | 316.92 |
| -45  | 82.29  | 175 | 166.63 | 395 | 245.37 | 615 | 318.52 |
| -40  | 84.27  | 180 | 168.48 | 400 | 247.09 | 620 | 320.12 |
| -35  | 86.25  | 185 | 170.33 | 405 | 248.81 | 625 | 321.71 |
| -30  | 88.22  | 190 | 172.17 | 410 | 250.53 | 630 | 323.30 |
| -25  | 90.19  | 195 | 174.02 | 415 | 252.25 | 635 | 324.89 |
| -20  | 92.16  | 200 | 175.86 | 420 | 253.96 | 640 | 326.48 |
| -15  | 94.12  | 205 | 177.69 | 425 | 255.67 | 645 | 328.06 |
| -10  | 96.09  | 210 | 179.53 | 430 | 257.38 | 650 | 329.64 |
| -5   | 98.04  | 215 | 181.36 | 435 | 259.08 | 655 | 331.22 |
| 0    | 100.00 | 220 | 183.19 | 440 | 260.78 | 660 | 332.79 |
| 5    | 101.95 | 225 | 185.01 | 445 | 262.48 |     |        |
| 10   | 103.90 | 230 | 186.84 | 450 | 264.18 |     |        |
| 15   | 105.85 | 235 | 188.66 | 455 | 265.87 |     |        |

Permissible Deviations for Class A and Class B Platinum Sensors

The permissible deviations for platinum resistance elements (uncalibrated) are determined by the following equations (in accordance with DIN IEC 751):

Permissible Deviation – Class A  
°C = ±(0.15 + 0.002 [t])

Permissible Deviation – Class B  
°C = ±(0.3 + 0.005 [t])

Where [t] is the temperature value in °C.

| Measuring temp. °C | Permissible Deviations |       |         |      |
|--------------------|------------------------|-------|---------|------|
|                    | Class A                |       | Class B |      |
|                    | Ω                      | °C    | Ω       | °C   |
| −200               | ±0.24                  | ±0.55 | ±0.56   | ±1.3 |
| −100               | ±0.14                  | ±0.35 | ±0.32   | ±0.8 |
| 0                  | ±0.06                  | ±0.15 | ±0.12   | ±0.3 |
| 100                | ±0.13                  | ±0.35 | ±0.30   | ±0.8 |
| 200                | ±0.20                  | ±0.55 | ±0.48   | ±1.3 |
| 300                | ±0.27                  | ±0.75 | ±0.64   | ±1.8 |
| 400                | ±0.33                  | ±0.95 | ±0.79   | ±2.3 |
| 500                | ±0.38                  | ±1.15 | ±0.93   | ±2.8 |
| 600                | ±0.43                  | ±1.35 | ±1.06   | ±3.3 |
| 650                | ±0.46                  | ±1.45 | ±1.13   | ±3.6 |
| 700                | —                      | —     | ±1.17   | ±3.8 |
| 800                | —                      | —     | ±1.28   | ±4.3 |
| 850                | —                      | —     | ±1.34   | ±4.6 |

