



### Industrial Platinum Resistance Thermometer Sensors

R(0)= 100.00Ω

| °C ITS 90 | 0      | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | °C 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 | 18.52 | -190      |
| -180      | 27.10  | 26.67 | 26.24 | 25.82 | 25.39 | 24.97 | 24.54 | 24.11 | 23.68 | 23.25 | 22.83 | -180      |
| -170      | 31.34  | 30.91 | 30.49 | 30.07 | 29.64 | 29.22 | 28.80 | 28.37 | 27.95 | 27.52 | 27.10 | -170      |
| -160      | 35.54  | 35.12 | 34.70 | 34.28 | 33.86 | 33.44 | 33.02 | 32.60 | 32.18 | 31.76 | 31.34 | -160      |
| -150      | 39.72  | 39.31 | 38.89 | 38.47 | 38.05 | 37.64 | 37.22 | 36.80 | 36.38 | 35.96 | 35.54 | -150      |
| -140      | 43.88  | 43.46 | 43.05 | 42.63 | 42.22 | 41.80 | 41.39 | 40.97 | 40.56 | 40.14 | 39.72 | -140      |
| -130      | 48.00  | 47.59 | 47.18 | 46.77 | 46.36 | 45.94 | 45.53 | 45.12 | 44.70 | 44.29 | 43.88 | -130      |
| -120      | 52.11  | 51.70 | 51.29 | 50.88 | 50.47 | 50.06 | 49.65 | 49.24 | 48.83 | 48.42 | 48.00 | -120      |
| -110      | 56.19  | 55.79 | 55.38 | 54.97 | 54.56 | 54.15 | 53.75 | 53.34 | 52.93 | 52.52 | 52.11 | -110      |
| -100      | 60.26  | 59.85 | 59.44 | 59.04 | 58.63 | 58.23 | 57.82 | 57.41 | 57.01 | 56.60 | 56.19 | -100      |
| -90       | 64.30  | 63.90 | 63.49 | 63.09 | 62.68 | 62.28 | 61.88 | 61.47 | 61.07 | 60.66 | 60.26 | -90       |
| -80       | 68.33  | 67.92 | 67.52 | 67.12 | 66.72 | 66.31 | 65.91 | 65.51 | 65.11 | 64.70 | 64.30 | -80       |
| -70       | 72.33  | 71.93 | 71.53 | 71.13 | 70.73 | 70.33 | 69.93 | 69.53 | 69.13 | 68.73 | 68.33 | -70       |
| -60       | 76.33  | 75.93 | 75.53 | 75.13 | 74.73 | 74.33 | 73.93 | 73.53 | 73.13 | 72.73 | 72.33 | -60       |
| -50       | 80.31  | 79.91 | 79.51 | 79.11 | 78.72 | 78.32 | 77.92 | 77.52 | 77.12 | 76.73 | 76.33 | -50       |
| -40       | 84.27  | 83.87 | 83.48 | 83.08 | 82.69 | 82.29 | 81.89 | 81.50 | 81.10 | 80.70 | 80.31 | -40       |
| -30       | 88.22  | 87.83 | 87.43 | 87.04 | 86.64 | 86.25 | 85.85 | 85.46 | 85.06 | 84.67 | 84.27 | -30       |
| -20       | 92.16  | 91.77 | 91.37 | 90.98 | 90.59 | 90.19 | 89.80 | 89.40 | 89.01 | 88.62 | 88.22 | -20       |
| -10       | 96.09  | 95.69 | 95.30 | 94.91 | 94.52 | 94.12 | 93.73 | 93.34 | 92.95 | 92.55 | 92.16 | -10       |
| 0         | 100.00 | 99.61 | 99.22 | 98.83 | 98.44 | 98.04 | 97.65 | 97.26 | 96.87 | 96.48 | 96.09 | 0         |

|     |        |        |        |        |        |        |        |        |        |        |        |     |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 0   | 100.00 | 100.39 | 100.78 | 101.17 | 101.56 | 101.95 | 102.34 | 102.73 | 103.12 | 103.51 | 103.90 | 0   |
| 10  | 103.90 | 104.29 | 104.68 | 105.07 | 105.46 | 105.85 | 106.24 | 106.63 | 107.02 | 107.40 | 107.79 | 10  |
| 20  | 107.79 | 108.18 | 108.57 | 108.96 | 109.35 | 109.73 | 110.12 | 110.51 | 110.90 | 111.29 | 111.67 | 20  |
| 30  | 111.67 | 112.06 | 112.45 | 112.83 | 113.22 | 113.61 | 114.00 | 114.38 | 114.77 | 115.15 | 115.54 | 30  |
| 40  | 115.54 | 115.93 | 116.31 | 116.70 | 117.08 | 117.47 | 117.86 | 118.24 | 118.63 | 119.01 | 119.40 | 40  |
| 50  | 119.40 | 119.78 | 120.17 | 120.55 | 120.94 | 121.32 | 121.71 | 122.09 | 122.47 | 122.86 | 123.24 | 50  |
| 60  | 123.24 | 123.63 | 124.01 | 124.39 | 124.78 | 125.16 | 125.54 | 125.93 | 126.31 | 126.69 | 127.08 | 60  |
| 70  | 127.08 | 127.46 | 127.84 | 128.22 | 128.61 | 128.99 | 129.37 | 129.75 | 130.13 | 130.52 | 130.90 | 70  |
| 80  | 130.90 | 131.28 | 131.66 | 132.04 | 132.42 | 132.80 | 133.18 | 133.57 | 133.95 | 134.33 | 134.71 | 80  |
| 90  | 134.71 | 135.09 | 135.47 | 135.85 | 136.23 | 136.61 | 136.99 | 137.37 | 137.75 | 138.13 | 138.51 | 90  |
| 100 | 138.51 | 138.88 | 139.26 | 139.64 | 140.02 | 140.40 | 140.78 | 141.16 | 141.54 | 141.91 | 142.29 | 100 |
| 110 | 142.29 | 142.67 | 143.05 | 143.43 | 143.80 | 144.18 | 144.56 | 144.94 | 145.31 | 145.69 | 146.07 | 110 |
| 120 | 146.07 | 146.44 | 146.82 | 147.20 | 147.57 | 147.95 | 148.33 | 148.70 | 149.08 | 149.46 | 149.83 | 120 |
| 130 | 149.83 | 150.21 | 150.58 | 150.96 | 151.33 | 151.71 | 152.08 | 152.46 | 152.83 | 153.21 | 153.58 | 130 |
| 140 | 153.58 | 153.96 | 154.33 | 154.71 | 155.08 | 155.46 | 155.83 | 156.20 | 156.58 | 156.95 | 157.33 | 140 |
| 150 | 157.33 | 157.70 | 158.07 | 158.45 | 158.82 | 159.19 | 159.56 | 159.94 | 160.31 | 160.68 | 161.05 | 150 |
| 160 | 161.05 | 161.43 | 161.80 | 162.17 | 162.54 | 162.91 | 163.29 | 163.66 | 164.03 | 164.40 | 164.77 | 160 |
| 170 | 164.77 | 165.14 | 165.51 | 165.89 | 166.26 | 166.63 | 167.00 | 167.37 | 167.74 | 168.11 | 168.48 | 170 |
| 180 | 168.48 | 168.85 | 169.22 | 169.59 | 169.96 | 170.33 | 170.70 | 171.07 | 171.43 | 171.80 | 172.17 | 180 |
| 190 | 172.17 | 172.54 | 172.91 | 173.28 | 173.65 | 174.02 | 174.38 | 174.75 | 175.12 | 175.49 | 175.86 | 190 |
| 200 | 175.86 | 176.22 | 176.59 | 176.96 | 177.33 | 177.69 | 178.06 | 178.43 | 178.79 | 179.16 | 179.53 | 200 |
| 210 | 179.53 | 179.89 | 180.26 | 180.63 | 180.99 | 181.36 | 181.72 | 182.09 | 182.46 | 182.82 | 183.19 | 210 |
| 220 | 183.19 | 183.55 | 183.92 | 184.28 | 184.65 | 185.01 | 185.38 | 185.74 | 186.11 | 186.47 | 186.84 | 220 |
| 230 | 186.84 | 187.20 | 187.56 | 187.93 | 188.29 | 188.66 | 189.02 | 189.38 | 189.75 | 190.11 | 190.47 | 230 |
| 240 | 190.47 | 190.84 | 191.20 | 191.56 | 191.92 | 192.29 | 192.65 | 193.01 | 193.37 | 193.74 | 194.10 | 240 |
| 250 | 194.10 | 194.46 | 194.82 | 195.18 | 195.55 | 195.91 | 196.27 | 196.63 | 196.99 | 197.35 | 197.71 | 250 |
| 260 | 197.71 | 198.07 | 198.43 | 198.79 | 199.15 | 199.51 | 199.87 | 200.23 | 200.59 | 200.95 | 201.31 | 260 |
| 270 | 201.31 | 201.67 | 202.03 | 202.39 | 202.75 | 203.11 | 203.47 | 203.83 | 204.19 | 204.55 | 204.90 | 270 |
| 280 | 204.90 | 205.26 | 205.62 | 205.98 | 206.34 | 206.70 | 207.05 | 207.41 | 207.77 | 208.13 | 208.48 | 280 |
| 290 | 208.48 | 208.84 | 209.20 | 209.56 | 209.91 | 210.27 | 210.63 | 210.98 | 211.34 | 211.70 | 212.05 | 290 |
| 300 | 212.05 | 212.41 | 212.76 | 213.12 | 213.48 | 213.83 | 214.19 | 214.54 | 214.90 | 215.25 | 215.61 | 300 |
| 310 | 215.61 | 215.96 | 216.32 | 216.67 | 217.03 | 217.38 | 217.74 | 218.09 | 218.44 | 218.80 | 219.15 | 310 |
| 320 | 219.15 | 219.51 | 219.86 | 220.21 | 220.57 | 220.92 | 221.27 | 221.63 | 221.98 | 222.33 | 222.68 | 320 |
| 330 | 222.68 | 223.04 | 223.39 | 223.74 | 224.09 | 224.45 | 224.80 | 225.15 | 225.50 | 225.85 | 226.21 | 330 |
| 340 | 226.21 | 226.56 | 226.91 | 227.26 | 227.61 | 227.96 | 228.31 | 228.66 | 229.02 | 229.37 | 229.72 | 340 |

