

This standard resistor was calibrated by comparing it to a primary reference standard resistor of similar value using a substitution method. The resistor was tested while in an air bath at 23.00°C ($\pm 0.05^\circ\text{C}$). An automatic current comparator resistance bridge with a thousand ohm check standard alternately measured the primary reference and the unknown resistor. The results reported are the mean of several measurements taken over several days. The individual measurements are the mean of the last 25 measurements of a run of 30 measurements taken for each

Measured Value @ 0.30 mADC	Pressure	Uncertainty
10000.0317 Ω	98.58 kPa	0.15 ppm

TEMPERATURE COEFFICIENTS OF RESISTANCE*

$$\text{Alpha } (\alpha) = 0.09306 \text{ E-06 } \Omega / ^\circ\text{C}$$

$$\text{Beta } (\beta) = -0.02458 \text{ E-06 } \Omega / ^\circ\text{C}^2$$

*Corrections to the value at 23°C, expressed in ppm, were calculated using these values and are tabulated below.

TEMPERATURE CORRECTIONS

Temperature in °C	Corrections to value at 23.00°C									
Temp	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
18	-1.1	-1.0	-1.0	-1.0	-0.9	-0.9	-0.9	-0.9	-0.8	-0.8
19	-0.8	-0.7	-0.7	-0.7	-0.7	-0.6	-0.6	-0.6	-0.5	-0.5
20	-0.5	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.3	-0.3	-0.3
21	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1
22	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
24	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
25	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
26	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
28	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3

End of Measurement Results