1865 Specified Accuracy

The resistance accuracy of the 1865 instrument is specified as:

$\pm[0.45\% + \{(Rx/Vx)(0.0005 * Fs + 2*10^{-12} A) + 30\Omega/Rx\} * 100\%]$
Rx: Measured Resistance in ohms (Ω)
Vx: Programmed voltage in volts (V)
Fs: Full scale current range in amperes (A)

The full-scale current ranges (Fs) are 1mA, 100uA, 10uA, 1uA, 100nA, 10nA and 1nA.

To make it easier to determine the specified accuracy three graphs are illustrated in Figures 1, 2 and 3 for voltage levels of 1000V, 100V and 10V respectively.

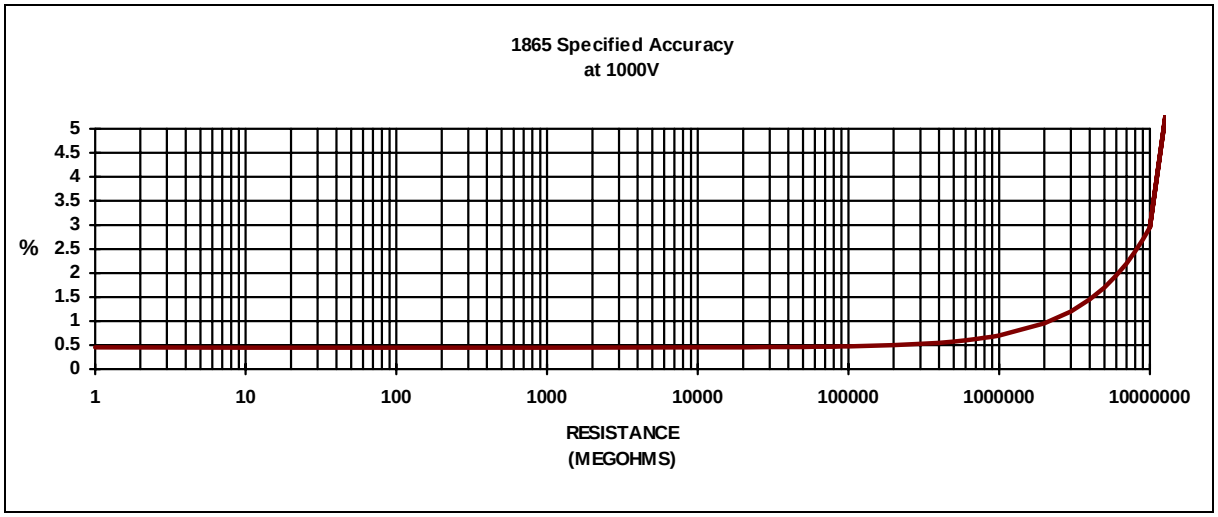

Figure 1: Resistance Accuracy at 1000V

Quickly scanning over the three graphs, a basic resistance accuracy of 0.5% is valid over the 1MΩ to 500GΩ range at 1000V; over the 100kΩ to 50GΩ range at 100V and over the 100kΩ to 1GΩ range at 10V.

More Pictures

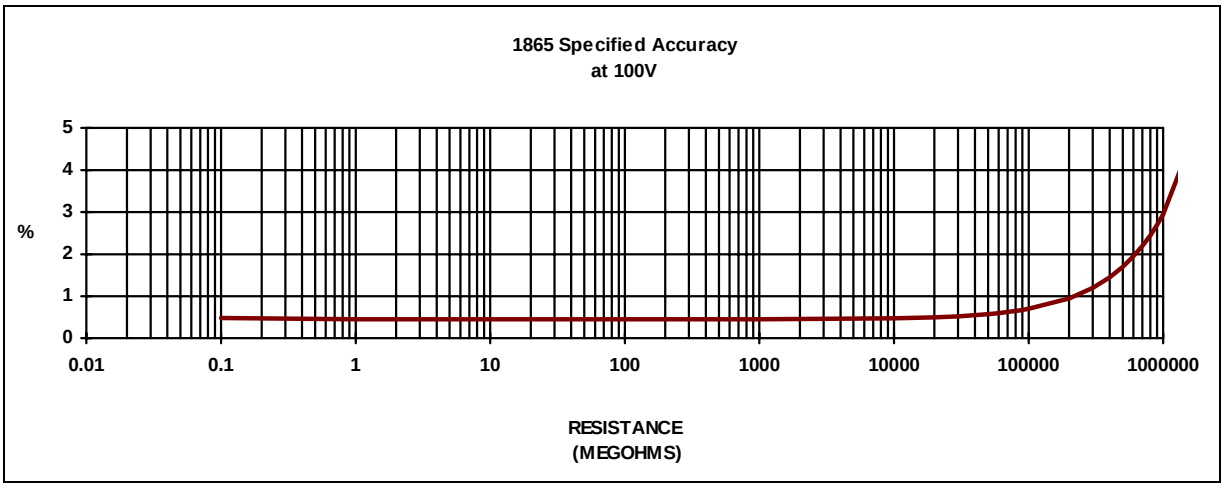

Figure 2: Resistance Accuracy at 100V

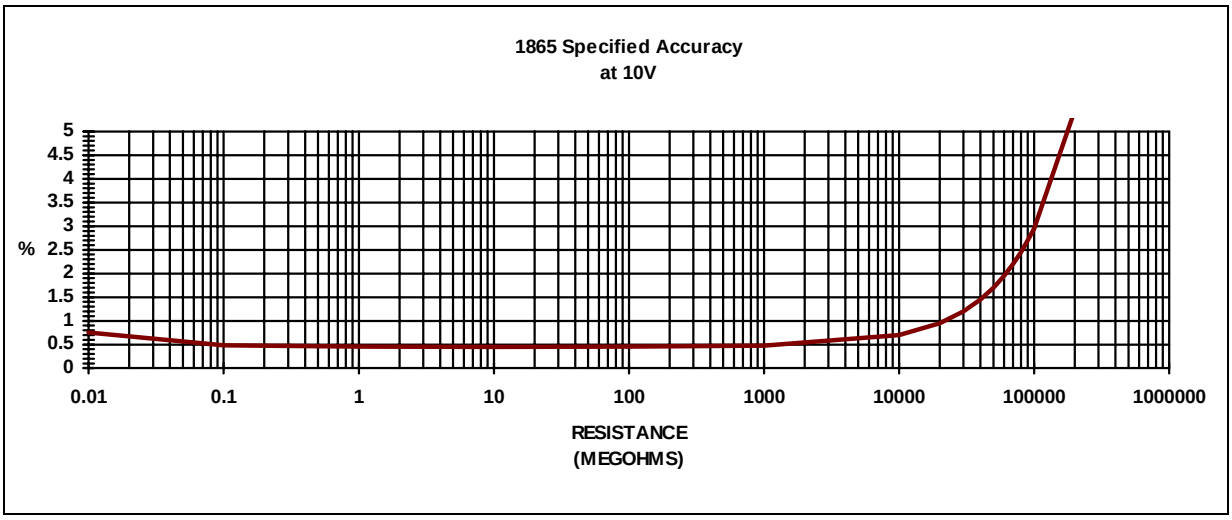

Figure 3: Resistance Accuracy at 10V

For complete product specifications on the 1865 Megohmmeter/IR Tester or any of QuadTech's products, visit us at http://www.quadtech.com/resources/dataindex.html. Do you have an application specific testing need? Call us at 1-800-253-1230 or email applications at jkramer@quadtech.com and we'll work with you on a custom solution. Put QuadTech to the test because we're committed to solving your testing requirements.

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