



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005  
& ANSI/NCSL Z540-1-1994 & ANSI/NCSL Z540.3-2006

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**CALIBRATION**

Valid To: June 30, 2017

Certificate Number: 2014.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

I. Electrical – DC/Low Frequency

| Parameter/Equipment   | Range   | CMC <sup>2,3</sup> (±)                              | Comments   |
|---|---|---|--|
| DC Resistance –<br>Generate and Measure<br>at 25.0 °C ± 0.0030 °C                 | (0.1 Ω, 0.1 A<br>to 1 Ω, 0.1 A)   | 2.0 μΩ/Ω  | L&N 4221B, 4210 (3),<br>MI 6010C, 9210A/1R,<br>7009, 9300A |
|   | (1 Ω, 0.1 A<br>to 10 Ω, 0.01 A)   | 0.60 μΩ/Ω   | L&N 4210 (3), 4025C,<br>MI 6010C, 9210A/1R,<br>7009        |
|   | (10 Ω, 0.01 A<br>to 100 Ω, 0.001 A)   | 0.60 μΩ/Ω   | L&N 4025C, 4030C, MI<br>6010C, 7009                        |
|   | (100 Ω, 0.001 A<br>to 1 kΩ, 0.0001 A)   | 0.43 μΩ/Ω   | L&N 4030C, 4035C, MI<br>6010C, 7009                        |
|   | (1 kΩ, 0.0001 A<br>to 10 kΩ, 0.0001 A)  | 0.42 μΩ/Ω   | L&N 4035C, 4040C, MI<br>6010C, 7009                        |
|   | (10 kΩ, 0.0001 A<br>to 100 kΩ, 10 V)  | 1.4 μΩ/Ω  | L&N 4040C, 4045C, MI<br>6010C, 7009                        |
|   | (100 kΩ, 10 V<br>to 1 MΩ, 10 V)   | 1.5 μΩ/Ω  | L&N 4045C, 4050C,<br>MI 6010C, 7009                        |
| DC Resistance –<br>Generate and Measure,<br>Cardinal Points<br>at 23.0 ± 0.050 °C | 0.0001 Ω, 10 A<br>0.0001 Ω, 50 A<br>0.0001 Ω, 100 A<br>0.001 Ω, 10 A<br>0.001 Ω, 50 A | 13 μΩ/Ω<br>18 μΩ/Ω<br>35 μΩ/Ω<br>11 μΩ/Ω<br>15 μΩ/Ω | L&N 4210, 4223B, MI<br>6010C, 6011B, 6100A,<br>9300A       |