

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

ROSS ENGINEERING CORPORATION
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 Campbell, CA 95008
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CALIBRATION

Valid To: October 31, 2012

Certificate Number: 2746.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
DC Voltage – Measure	(0 to 100) mV 100 mV to 1 V (1 to 10) V (10 to 100) V (100 to 1000) V	18 µV/V + 1 µV 12 µV/V + 0.5 µV 11 µV/V + 0.25 µV 12 µV/V + 0.5 µV 15 µV/V + 1 µV	Datron 1271 DMM
DC High Voltage – Measure (Metered)	(1 to 175) kV	0.0095 %	Ross VD240 and Datron 1271 DMM
DC High Voltage – Ratio (Bridged)	(1 to 175) kV	0.0084 %	Ross VD240 and Rubicon 3415 galvanometer

Parameter/Frequency	Range	CMC ^{2,3} (±)	Comments
AC Voltage – Measure (40 to 100) Hz 40 Hz to 10 kHz	(1 to 100) mV (0.1 to 100) V (0.1 to 1) kV	0.019 % + 20 µV 0.011 % + 10 µV 0.013 % + 10 µV	Datron 1271 DMM

Parameter/Frequency	Range	CMC ^{2,3} (±)	Comments
AC High Voltage – Measure 60 Hz	(1 to 13.8) kV RMS	0.11 %	Ross VD240 and Datron 1271 DMM
	(13.8 to 138) kV RMS	0.015 %	Trench type UT5H-900-230 and Datron 1271 DMM
	(138 to 150) kV RMS	0.11 %	Ross VD240 and Datron 1271 DMM

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. Calibration and Measurement Capabilities represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ In the statement of CMC percent refers to percent of reading.



World Class Accreditation

The American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

ROSS ENGINEERING CORPORATION

Campbell, CA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 13th day of August 2010.



A handwritten signature in black ink, appearing to read "Peter Abney", written over a horizontal line.

President & CEO
For the Accreditation Council
Certificate Number 2746.01
Valid to October 31, 2012

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.