



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

GMW ASSOCIATES
955 Industrial Road
San Carlos, CA 94070
Sandro Renteria Phone: 650 802 8292

CALIBRATION

Valid To: March 31, 2020

Certificate Number: 4349.01

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 ^{2,4} (±)	Comments
DC Current Ratio – Current Output	40 A to 8 kA	0.80 %	Calibration of DC current transducers using reference transducer comparison method
AC Current Ratio ³ – Current Output Frequency: (50 to 400) Hz	40 A to 5 kA	0.10 %	Calibration of AC current transducers using reference transducer comparison method,
AC Current Phase Displacement Current Output Frequency: (50 to 400) Hz	Phase: (-0.5 to 0.5) ° Current: 40 A to 5 kA	0.020 °	Calibration of AC current transducers using reference transducer comparison method

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability Uncertainty (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. CMC's 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 AC Current Range values are RMS (sinusoidal) values. Limited to 2 kA at 400 Hz.

⁴ In the statement of CMC, a % denotes a percentage of reading unless otherwise noted.



Accredited Laboratory

A2LA has accredited

GMW ASSOCIATES

San Carlos, 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 R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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 April 2017*).



Presented this 9th day of February 2018.

A blue ink signature of the Senior Director of Accreditation Services.

Senior Director, Accreditation Services
For the Accreditation Council
Certificate Number 4349.01
Valid to March 31, 2020
Revised December 14, 2018

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