



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Alpha Technics

125 S. Tremont Street, Suite 100

Oceanside, CA 92054

(and satellite site as shown on scope)

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-2093

Certificate Number


ANAB Approval

Certificate Valid: 10/03/2018-11/09/2020
Version No. 003 Issued: 10/03/2018



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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).



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
AND ANSI/NCSL Z540-1-1994 (R2002)**

Alpha Technics

125 S. Tremont Street, Suite 100
Oceanside, CA 92054

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CALIBRATION

Valid to: **November 9, 2020**

Certificate Number: **AC-2093**

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Resistance	0 Ω to 2 k Ω	8.2 $\mu\Omega/\Omega$ of reading + 0.52 m Ω	Digital Multi-Meter
Resistance	(2 to 20) k Ω	8.2 $\mu\Omega/\Omega$ of reading + 5.2 m Ω	Digital Multi-Meter
Resistance	(20 to 200) k Ω	8.2 $\mu\Omega/\Omega$ of reading + 100 m Ω	Digital Multi-Meter

Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Temperature-Source	(-20.15 to 150.15) $^{\circ}\text{C}$	0.006 $^{\circ}\text{C}$	Standard Platinum Resistance Thermometer, triple point of water cell, copper averaging block, and a Digital Multi-Meter.



Services performed at satellite location

Callejon De Servicio No. 61
Col. El Encanto C.P. 21440, Tecate B.C., Mexico

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Resistance ¹	0 Ω to 1 kΩ	20 μΩ/Ω of reading + 3.4 mΩ	Digital Multi-Meter
Resistance ¹	(1 to 10) kΩ	20 μΩ/Ω of reading + 34 mΩ	Digital Multi-Meter
Resistance ¹	(10 to 101) kΩ	20 μΩ/Ω of reading + 340 mΩ	Digital Multi-Meter

Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Temperature-Source ¹	(-20.10 to 150.10) °C	0.010 °C	Temperature Secondary Standard Thermometer

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-2093.



Vice President

