



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

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

This is to certify that

Electro Controles del Noroeste, S.A. de C.V.
Blvd. Vildosola #190, Colonia Pedregal de la Villa C.P. 83270
Hermosillo, Sonora, Mexico

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

ISO/IEC 17025:2005

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-1748

Certificate Number


ANAB Approval

Certificate Valid: 01/17/2017-12/14/2018
Version No. 002 Issued: 01/17/2017



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 January 2009).



ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Electro Controles del Noroeste, S.A. de C.V.

Boulevard Vildosola #190, Colonia Pedregal de la Villa, C.P. 83270, Hermosillo, Sonora, México
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CALIBRATION

Valid to: December 14, 2018

Certificate Number: AC-1748

I. Thermodynamic

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty(\pm)]	Reference Standard or Equipment	Methods
Temperature - Measure	(-30 to 125) °C (35 to 200) °C	0.096 °C 0.098 °C	Liquid Bath7103 Liquid Bath 6102 PRT Fluke 5616 w/ 1523 Ice Point	ECN-TC-012

II. Mechanical

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty(\pm)]	Reference Standard or Equipment	Methods
Pressure ²	(3 to 30) psi (30 to 300) psi (100 to 1 000) psi (300 to 3 000) psi	0.016 psig 0.11 psig 0.57 psig 2.0 psig	30 psi Module 300 psi Module 1 k psi Module 3 k psi Module Crystal nVision	ECN-TC-012



III. Chemical Quantities

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty(±)]	Reference Standard or Equipment	Methods
pH Meters	4.01 pH 7.01 pH 10.01 pH	0.026 pH 0.020 pH 0.023 pH	Buffer Solutions	ECN-TC-012
Conductivity Meters	10 µS/cm 100 µS/cm 1 000 µS/cm 10 000 µS/cm 100 000 µS/cm	0.20 µS/cm 0.73 µS/cm 3.3 µS/cm 17 µS/cm 140 µS/cm	Conductivity Solutions	ECN-TC-012

- Notes:
1. Calibration and Measurement Capabilities (Expanded Uncertainty) are based on approximately a 95% confidence interval, using a coverage of k=2
 2. The Laboratory offers calibration services in the laboratory and on-site at customer-designated locations. Since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than reported on the accredited scope.
 3. This scope is formatted as part of a single document including the Certificate of Accreditation No. AC-1748



 Vice President