



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL TECHNICAL SYSTEMS  
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THERMAL

Valid to: June 30, 2018

Certificate Number: 0214.04

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to the laboratory to perform the following thermal and environmental simulation tests:

<u>Tests</u>	<u>Specifications</u>
High/Low Temperature	EIA-364-17 and 32; ETSI EN 300-019-2-1; ETSI EN 300-019-2-2; ETSI EN 300-019-2-3; ETSI EN 300-019-2-4; GR-49-CORE; GR-63-CORE; GR-487-CORE; GR-950-CORE; IEC 60068-2-1; IEC 60068-2-2; MIL-DTL-38999; MIL-DTL-26500; MIL-DTL-83513; MIL-DTL-24308; MIL-DTL-55302; MIL-STD-202; MIL-STD-810; MIL-STD-883; RTCA/DO-160; SAE AS85049; SAE AS39029; SAE AS50151
Thermal Shock	EIA-364-32; IEC 60068-2-14; MIL-STD-202 E, F, G; MIL-STD-810; MIL-STD-883
Temperature/Humidity	ETSI EN 300 019; GR-49-CORE; GR-63-CORE; GR-950-CORE; IEC 60068-2-30; IEC 60068-2-56; IEC 60068-2-7; MIL-STD-202; MIL-STD-810; MIL-STD-883; RTCA/DO-160; SAE AS85049; EIA-364-31
Low Air/Barometric Pressure (Altitude/Overpressure)	EIA-364-105; ETSI EN 300-019; GR-63-CORE; MIL-STD-202; MIL-STD-810; NEMA 250; RTCA/DO-160
Decompression	RTCA-DO/160; MIL-STD-810
Corrosion	ASTM B117; EIA-364-26; GR-49-CORE; GR-487-CORE; GR-950-CORE; IEC-60529; MIL-STD-202; MIL-STD-810; MIL-STD-883; NEMA 250; RTCA/DO-160; SAE AS85049
Rain (Waterproofness)	ETSI EN 300-019-2-1; ETSI EN 300-019-2-2; ETSI EN 300-019-2-3; ETSI EN 300-019-2-4; GR-49-CORE; GR-487-CORE; GR-950-CORE; IEC-60529; MIL-STD-810; NEMA 250; RTCA/DO-160

**Tests**

**Specifications**

Explosionproofness (Explosive Atmosphere)	IEC 60529; MIL-STD-202; MIL-STD-810; RTCA/DO-160
Dust	ETSI EN 300-019; GR-487-CORE; GR-950-CORE; IEC 60529; IEC 60068-2-68; MIL-STD-202; MIL-STD-810; NEMA 250; RTCA/DO-160
Battery Compartment	GR-487-CORE
Immersion	GR-49-CORE; MIL-STD-202; MIL-STD-810; MIL-STD-883; SAE AS85049
Icing	GR-950-CORE; MIL-STD-810; NEMA 250; RTCA/DO-160
Fluid Susceptibility (Fluid Immersion)	EIA364-10; GR-49-CORE; GR-950-CORE; MIL-STD-202; MIL-STD-810; RTCA/DO-160; SAE AS85049
Wind Resistance	GR-487-CORE, Issue 2
Ozone	EIA 364-14; MIL-DTL-38999; SAE AS85049; MIL-DTL-83723; MIL-DTL-26482; MIL-DTL-26500; MIL-PRF-28876; ASTM D1149; ASTM D1171; GR-487-CORE

**On the following types of equipment:**

Telecommunication Equipment, Network Equipment, Industrial and Commercial Equipment, Electronic (Digital) Equipment, Aerospace





## Accredited Laboratory

A2LA has accredited

### NATIONAL TECHNICAL SYSTEMS (NTS)

Fullerton, CA

for technical competence in the field of

### Thermal Testing

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 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 18<sup>th</sup> day of July 2016.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Valid to June 30, 2018  
Revised March 27, 2018

*For the tests to which this accreditation applies, please refer to the laboratory's Thermal Scope of Accreditation.*