



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL TECHNICAL SYSTEMS
1536 East Valencia Drive
Fullerton, CA 92831
Cathy Rumble Phone: (714) 879-6110
E-mail: cathy.rumble@nts.com
Website: <http://www.nts.com>

THERMAL

Valid to: March 31, 2020

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:

Tests

Specifications

High/Low Temperature
(-80 to 350) °C

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
(-55 to 95) °C
(10 to 95) %RH

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 April 2017*).



Presented this 20th day of September 2018.

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

President and CEO
For the Accreditation Council
Certificate Number 0214.04
Valid to March 31, 2020

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