



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

KEYSTONE COMPLIANCE
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MECHANICAL¹

Valid To: May 31, 2018

Certificate Number: 3293.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on aerospace components, military equipment, nuclear equipment, commercial, automotive components and medical devices:

Test Description/Test Parameters:

Test Method/Test Standards:

Temperature¹
 (-70 to 200) °C

IEC 60068-2-14

High Temperature
 Low Temperature
 Temperature Cycling
 Thermal Shock

MIL-STD-810 D-G, Method 501
 MIL-STD-810 D-G, Method 502
 MIL-STD-883 F-J, Method 1010
 MIL-STD-883 F-J, Method 1011;
 MIL-STD-202 G, Method 107;
 MIL-STD-810 D-G, Method 503
 MIL-STD-883 F-J, Method 1012
 RTCA/DO-160 F-H, Section 5.0
 AREMA 2010, Section 11.5.1
 EN-60068-2-1
 EN-60068-2-2
 EN-60068-2-30
 EN-50155, Section 2.1

Thermal Characteristics
 Temperature Variation
 Temperature
 Cold Temperature
 Dry Heat
 Damp Heat
 Ambient Temperature

Temperature and Humidity¹
 Temperature: (-70 to 200) °C
 Humidity: up to 98% RH

MIL-STD-810 D-G, Method 507;
 MIL-STD-202 G, Methods 103, 106;
 MIL-STD-1344 A, Section 1002;
 MIL-STD-883 F-J, Methods 1004, 1013;
 RTCA/DO-160 D-F, Section 6.0;
 AREMA 2010, Section 11.5.1

Test Description/Test Parameters:

Test Method/Test Standards:

Temperature Life

Steady State Life
Intermittent Life
Agree Life
Stabilization Bake
Life
Temperature Cycling
Temperature Life

MIL-STD-883 F-J, Method 1005
MIL-STD-883 F-J, Method 1006
MIL-STD-883 F-J, Method 1007
MIL-STD-883 F-J, Method 1008
MIL-STD-202 G, Method 108
MIL-STD-1344 A, Section 1003
MIL-STD-1344 A, Section 1005

Shock/Drop

IEC 60068-2-27

Shock

MIL-STD-810 D-G, Method 516;
AREMA 2010, Section 11.5.1;

Pyroshock

MIL-STD--883J, Method 2002.5, Conditions A & B;
MIL-STD-1344 A, Section 2004;
EN-61373, Section 10.0

Shock¹ (Specified Pulse) up to 1,500 G's
Operational Shock

MIL-STD-810 D-G, Method 517
MIL-STD-202 G, Method 213;
RTCA/DO-160 D-F, Section 7.0

Vibration¹

Frequency Range: (5 to 3,000) Hz

Displacement: Up to 3 in

Vibration

IEC 60068-2-6;
IEC 60068-2-64

MIL-STD-810 D-G, Method 514;
MIL-STD-202 G, Method 201;
RTCA/DO-160 D-F, Section 8.0;
AREMA 2010, Section 11.5.1;
MIL-STD-1344A, Section 2005;
MIL-STD-883 F-J;

Gunfire Vibration

MIL-STD-810 D-G, Method 519

Vibration High Frequency

MIL-STD-202 G, Method 204

Random Vibration

MIL-STD-202 G, Method 214;
EN-61373, Section 8.0

Increased Random Vibration

EN-61373, Section 9.0

Water Test/Rain

Rain
Moisture Resistance
Dew Point
Waterproofness

MIL-STD-810 D-G, Method 506
MIL-STD-883, Method 1004
MIL-STD-202, Method 106
MIL-STD-883, Method 1013;
RTCA/DO-160 D-F, Section 10.0

Icing/Freezing Rain

RTCA/DO-160 D-F, Section 24.0;
MIL-STD-810 D-G, Section 521



Test Description/Test Parameters:

Test Method/Test Standards:

Salt Fog (Spray)

Salt Fog

MIL-STD-810 D-G, Method 509;
RTCA/DO-160 D-F, Section 14.0;
MIL-STD-1344A, Section 1001
MIL-STD-883 F-J, Method 1009;
MIL-STD-202 G, Method 101
EN-50155, Section 10.2.10;
ASTM B117-11

Salt Atmosphere

Salt Mist

Immersion

MIL-STD-810 D-G, Method 512;
MIL-STD-883 F-J, Method 1002

Solar Radiation (Procedure 1H Heating Effects only)

MIL-STD-810 D-G, Method 505

Ingress Protection

IEC 60529;
IP1X; IP2X; IP3X; IP4X; IP5X; IP6X (First Char.);
IPX1; IPX2; IPX3; IPX4; IPX5; IPX6; IPX7; IPX8 (Second Char.);
NEMA 250, Section 5

ISTA Transit Testing Methods

1A, 1B, 1C, 1D, 1E, 1G, 1H, 2A, 2B, 2C, 3A, 3B, 3E, 3K,
4AB, 6-AMAZON.com-B, 6SAMSClub, 7D

¹ Also using customer supplied test methods directly related to the capabilities and test methods listed.





Accredited Laboratory

A2LA has accredited

KEYSTONE COMPLIANCE

New Castle, PA

for technical competence in the field of

Mechanical 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 11th day of July 2016

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

President/CEO
For the Accreditation Council
Certificate Number 3293.02
Valid to May 31, 2018
Revised May 3, 2017

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