



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

EMTS LAB INC.
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MECHANICAL¹

Valid To: April 30, 2021

Certificate Number: 5179.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on military, aerospace, automotive, medical, commercial, metals, plastics, rubber, electrical/electronic products and/or assemblies:

Test Technology:

Test Method(s):

Breath Alcohol Ignition Interlock Test (BAIID)²

EN 50436-1
EN 50436-2
NHTSA-2013-0058, Federal Register / Vol. 78, No. 89
CSTT-HVC-TR-114/CSTT-HVC-TR-150
CAN/CSA-Z627-16

**Temperature²: Range:
(-68°C to 180°C)**

High Temperature	EIA/ECA-364-59A
Low Temperature	IEC/EN 60068-2-3
Temperature Cycling	IEC/EN 60068-2-14
Thermal Shock	IEC/EN 60068-2-30
Dry Heat	MIL-STD-202, M107
Ambient Temperature	MIL-STD-810, M501.5
	MIL-STD-810, M502.5
	MIL-STD-810, M503.5
	MIL-STD-883, M1010.9
	MIL-STD-883, M1011.9
	MIL-STD-883, M1012.1
	EN50436-1
	IEC/EN 60068-2-1
	EIA-364-17C
	EIA/ECA-364-110
	EIA-364-32F

Test Technology:

Test Method(s):

Temperature and Humidity²:

Temperature: (-68 to 180) °C
Humidity: up to 98% RH

IA-364-31C
IEC/EN 60068-2-2
IEC/EN 60068-2-38
IEC/EN 60068-2-61
IEC/EN 60068-2-78
MIL-STD-1344 Sec1002
MIL-STD-202, M106
MIL-STD-810, M507.5
MIL-STD-810, M524
MIL-STD-883, M1004.7
MIL-STD-883, M1013
RTCA/DO-160 Sec5.0
RTCA/DO-160 Sec6.0
EN50436-1
NHTSA-2013-0058

Vibration & Shock w/Temperature²

Frequency Range:
(5 to 3,000) Hz
Displacement: Up to 2 in
Peak-Peak
Shock to 100Gs
Temperature Range:
(-45°C to +120°C)

Sine, Resonance Search,
Resonance Dwell, Random,
Sine-on-Random, Random-
on-Random, Classical Shock

IEC/EN 60068-2-31: Rough Handling Shock
EIA-364-27C
EIA-364-28F
EN50436-1
NHTSA-2013-0058
ASTM D3580
ASTM D5112
IEC/EN 60068-2-6
IEC/EN 60068-2-27
IEC/EN 60068-2-64
IEC/EN 60068-2-80
MIL-STD-1344 Sec2005
MIL-STD-202, M201
MIL-STD-202, M204
MIL-STD-202, M214
MIL-STD-810, M514
MIL-STD-810, M516
MIL-STD-810, M519
MIL-STD-883, M2002.5
MIL-STD-883, M2005.2
MIL-STD-883, M2007.3
MIL-STD-883, M2026
RTCA/DO-160 Sec8.0



Test Technology:

Test Method(s):

Water Test/Rain, Ingress Protection²

Rain
Moisture Resistance
Dew Point
Waterproofness

MIL-STD-810, M521, Icing & Freezing Rain
IEC/EN 60068-2-18
IEC/EN 60068-2-68
IEC/EN 60950-22
MIL-STD-202, M106
MIL-STD-810, M506.1
MIL-STD-810, M510.5
MIL-STD-810, M512.5
MIL-STD-883, M1002
RTCA/DO-160 Sec10.0

Icing/Freezing Rain²

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

Ingress Protection²

IEC 60529;
IP1X; IP2X; IP3X; IP4X; IP5X; IP6X (First Char.);
IPX1; IPX2; IPX3; IPX4; IPX5; IPX6; IPX7; IPX8; IPX9;
IPX9K;
NEMA 250, Section 5; UL50
UL50E
CSA C22.2 No.94
EN50436-1
EIA/ECA-364-10E
EIA-364-50B, Fine Sand
RTCA/DO-160G Sec12.0

ISTA Transit Testing Methods²

1A, 1B, 1C, 1D, 1E, 1G, 1H, 2A, 2B, 2C, 3A, 3B, 3E, 3K,
4AB

Packaged Products²

Temperature
Vibration

ASTM D5276, ISTA sub, Free Fall
ASTM D5487, ISTA sub, Shock
ASTM D999, ISTA sub, Vibration
ISTA 1 Series
ISTA 2 Series
ISTA 3 Series
ISTA 4 Series
ISTA 6 Series



Test Technology:

Test Method(s):

Salt Fog/Spray (5% Salt Solution)²

Salt Fog
Salt Atmosphere
Salt Mist

IEC/EN 60068-2-52
ASTM B117
IEC/EN 60068-2-11
IEC/EN 60950-22
MIL-STD-1344 Sec1001
MIL-STD-202, M101
MIL-STD-883, M1009.8
MIL-STD-883, M1031
RTCA/DO-160 Sec14.0
MIL-STD-810, M509.5
EIA-364-26C

SO₂²

ASTM G85
IEC/EN 60068-2-42
IEC/EN 60950-22
IEC/EN 61300-2-28
ISO 6988

Drop Testing²

ISO 16750-3

Solar

MIL-STD-810, M505.5

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories are required to be using the current version within one year of the date of publication of the standard test method, per part C., Section 1 of A2LA R101 - General Requirements - Accreditation of ISO-IEC 17025 Laboratories.

² Also using customer supplied and industry specifications directly related to the test technologies and parameters listed above to perform tests on military, aerospace, automotive, medical, commercial, metals, plastics, rubber, electrical/electronic products and/or assemblies.





Accredited Laboratory

A2LA has accredited

EMTS LAB INC

Stouffville, Ontario,

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 8th day of April 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5179.01
Valid to April 30, 2021

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