



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005


DATASYST ENGINEERING & TESTING SERVICES, INC.
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MECHANICAL

Valid To: December 31, 2017

Certificate Number: 2107.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on mechanical assemblies and electrical components:

<u>Test(s):</u>	<u>Test Method(s):</u>
Vibration	
Sine, Random, Sine-on-Random	ETSI EN 300 019-2-2 v.2.1.2;
Combined Environment	ETSI EN 300 019-2-3 v.2.1.3;
DC up to 3,000 Hz	IEC 68-2-6;
up to 30,000 Force Pounds	IEC 68-2-64;
(-73 to 177) °C	MIL-STD-202G, Method 201A, 204D, 214;
(30 to 80) %RH	MIL-STD-810(D,E,F,G), Method 514;
	MIL-STD-883E, Method 2005.2, 2007.2;
	MIL-STD-1344A, Method 2005;
	RTCA/DO-160 E, Section 8;
	SAE J1211, Section 4.7;
	SAE J1455, Section 4.10;
	GR-63-CORE, Section 5.4.2, 5.4.3, 4.4.3;
Mechanical Shock	
Pulse (0.1 to 700) g's	ETSI EN 300 019-2-2 v.2.1.2;
Temperature (-73 to 177) °C	ETSI EN 300 019-2-3 v.2.1.3;
Humidity (5 to 95) %RH	GR-63-CORE, Section 5.3;
	IEC 68-2-27;
	MIL-STD-202G, Method 213B;
	MIL-STD-810(D,E,F,G) Method 516;
	MIL-STD-810F, Method 519;
	MIL-STD-883E, Method 2002;
	MIL-STD-1344A, Method 2004;
	RTCA/DO-160 E, Section 7;
	SAE J1211, Section 4.8;
	SAE J1455, Section 4.11
<u>Test(s):</u>	<u>Test Method(s):</u>
Mechanical Impact	CFR 49 Para. 178.603
Drop - up to 5 ft	

Durability/Mechanical Cycling Force - up to 30,000 lbs Displacement - up to 10 in Velocity 35 in/s	MIL-STD-1344A: 2009, 2010
Environmental Simulation Temperature (-73 to 177) °C	IEC 68-2-1; MIL-STD-883E, Methods 1005, 1006, 1007, 1008; MIL-STD-1344A, Method 1005; RTCA/DO-160 E, Section 5; SAE J1211, Section 4.1; SAE J1455, Section 4.1; MIL-STD-781
Thermal Shock (-73 to 177) °C within 3 seconds	MIL-STD-883E, Method 1010; MIL-STD-1344A, Method 1003
Humidity (5 to 95) %RH	ETSI EN 300 019-2-1 v.2.1.2; IEC 68-2-28; IEC 68-2-30; IEC 68-2-38; MIL-STD-202G, Method 103B; MIL-STD-1344A, Method 1002; SAE J1211, Section 4.2; SAE J1455, Section 4.2; RTCA/DO-160 E, Section 6
Temperature/Altitude (0 to +177) °C Sea Level to 40,000 feet or 24 inches Hg	GR-63-CORE, 5.1; MIL-STD-883E, Method 1001; RTCA DO 160 E, Section 4; SAE J1211, Section 4.6; SAE J1455, Section 4.9
Icing/Freezing Rain	MIL-STD-810F, 521
Immersion	MIL-STD-883E, Method 1002
Immersion and Splash	MIL-STD-1344A, Method 1016; SAE J1211, Section 4.4; SAE J1455, Section 4.4
Packaged Products for Parcel Delivery Systems –	ISTA 1A, 1B, 1C, 1D, 1E, 1G, 1F, 2A, 2B, 2C, 3A, 3B, 3E, 3F, 4A, 4B, 6, 7D
Strain Gage Application (Installation of Bonded Resistance Strain Gages)	ASTM E1237
Voltage VDC: 1000 V VAC: 750 V	SAE J1455, 4.13.1





Accredited Laboratory

A2LA has accredited

DATASYST ENGINEERING & TESTING SERVICES, INC.

Delafield, WI

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 25th day of March 2016.

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

President and CEO
For the Accreditation Council
Certificate Number 2107.01
Valid to December 31, 2017
Revised January 16, 2017

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