



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

DLS Conformity Assessment, Inc.
200 E. Marquardt Drive
Wheeling, IL 60090

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-1859

Certificate Number



ANAB Approval

Certificate Valid: 04/17/2018-04/23/2020
Version No. 005 Issued: 04/17/2018



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

DLS Conformity Assessment, Inc.

200 E. Marquardt Drive

Wheeling, IL 60090

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TESTING

Valid to: April 23, 2020

Certificate Number: AT-1859

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Vibration, Shock, Op-Shock	RTCA/DO-160; MIL810; UL991; MIL STD 202; IEC 60068	Aviation, Automotive, Consumer Electronics	ETS Solutions LDS Dytran Accelerometers
Crash Safety Acceleration	RTCA/DO-160; MIL810; UL991 MIL STD 202; IEC 60068	Aviation, Automotive, Consumer Electronics	VST CSAT Centrifugal Static Acceleration Tester Dytran Accelerometers
Thermal Exposure, Humidity Exposure	RTCA/DO-160; MIL810; UL991 MIL STD 202; IEC 60068	Aviation, Automotive, Consumer Electronics	Thermotron, Ransco, Espec, Cincinnati Sub Zero
Solar Radiation	MIL STD 810; or Per Customer Requirement	Aviation, Automotive, Consumer Electronics	Q-Lab, Q-Sun Xenon Arc Chamber
Dust/Sand Exposure	RTCA/DO-160 Rev B-G MIL810 Rev B-G	Aviation, Automotive, Consumer Electronics	Custom Vaisala Temp/Humidity Probe Goyen Particle Sensor
Salt Fog Exposure	RTCA/DO-160; MIL810; UL991 MIL STD 202; ASTM B117	Aviation, Automotive, Consumer Electronics	Singleton Corp.
Altitude Testing	RTCA/DO-160; MIL810 MIL STD 202	Aviation	Tenney
Ingress Protection against water	IEC 60529	Consumer & Industrial Products	Water fixtures/nozzles, Cole Parmer
Ingress Protection against dust	IEC 60529	Consumer & Industrial Products	Dust Chamber/Vacuum pump/gages, Cole Parmer
Waterproofness	RTCA/DO-160 MIL810; IEC 60529	Aviation, Automotive, Consumer Electronics	Water Drip Fixture



Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Immersion	RTCA/DO-160 MIL810	Aviation, Automotive, Consumer Electronics	Water Immersion Tank
Fluids Susceptibility/Also Electrical	RTCA/DO-160 MIL810; MIL STD 202	Aviation, Automotive, Consumer Electronics	Thermotron, Ransco, Espec, Cincinnati Sub Zero
Icing	RTCA/DO-160 MIL810	Consumer & Industrial Products	Thermotron, Ransco, Espec, Cincinnati Sub Zero
Fire/Flammability	RTCA/DO-160 MIL810; UL94 IEC 60695	Consumer & Industrial Products	Fire Hood/ Burners/Fixtures
Explosive Atmosphere	MIL-STD-810G, Method 511.5, RTCA/DO-160G, Section 9	Aviation, Automotive, Consumer Electronics	Explosive Atmosphere Chamber Gas Analyzer Temp Monitoring

Electrical

Test Method	Test Specification(s)	Range	Comments
Input current	IEC/EN/UL/CSA 60950-1; IEC/EN/UL/CSA 60065; IEC/EN/UL/CSA 61010-1; IEC/EN/UL/AAMI ES/CSA 60601-1; IEC/EN/UL/CSA 60730-1	Consumer & Industrial Products	Voltech / APT
Temperature Rise / Heating	IEC/EN/UL/CSA 60950-1; IEC/EN/UL/CSA 60065; IEC/EN/UL/CSA 61010-1; IEC/EN/UL/AAMI ES/CSA 60601-1; IEC/EN/UL/CSA 60730-1	Consumer & Industrial Products	Agilent / Omega
Grounding / Bonding Test	IEC/EN/UL/CSA 60950-1; IEC/EN/UL/CSA 60065; IEC/EN/UL/CSA 61010-1; IEC/EN/UL/AAMI ES/CSA 60601-1; IEC/EN/UL/CSA 60730-1	Consumer & Industrial Products	Associated Research
Insulation Resistance Test	IEC/EN/UL/CSA 60065; IEC/EN/UL/CSA 60730-1; IEC 60664	Consumer & Industrial Products	Associated Research
Dielectric / Electric Strength Test	IEC/EN/UL/CSA 60950-1; IEC/EN/UL/CSA 60065; IEC/EN/UL/CSA 61010-1; IEC/EN/UL/AAMI ES/CSA 60601-1; IEC/EN/UL/CSA 60730-1	Consumer & Industrial Products	Associated Research



Electrical

Test Method	Test Specification(s)	Range	Comments
Lock Rotor Fault Test, Component Fault Test- Overload, Component Fault Test-Short Circuit / Output	IEC/EN/UL/CSA 60950-1; IEC/EN/UL/CSA 60065; IEC/EN/UL/CSA 61010-1; IEC/EN/UL/AAMI ES/CSA 60601-1; IEC/EN/UL/CSA 60730-1	Consumer & Industrial Products	Agilent / Omega
Leakage Test, Residual Voltage Test	IEC/EN/UL/CSA 60950-1; IEC/EN/UL/CSA 60065; IEC/EN/UL/CSA 61010-1; IEC/EN/UL/AAMI ES/CSA 60601-1; IEC/EN/UL/CSA 60730-1	Consumer & Industrial Products	Bapco
Battery Reverse Polarity	IEC/EN/UL/CSA 60950-1; IEC/EN/UL/CSA 60065; IEC/EN/UL/CSA 61010-1; IEC/EN/UL/AAMI ES/CSA 60601-1; IEC/EN/UL/CSA 60730-1	Consumer & Industrial Products	Fluke / Voltech / Agilent
Power Supply Interruption Test	IEC/EN/UL/CSA 60950-1; IEC/EN/UL/CSA 60065; IEC/EN/UL/CSA 61010-1; IEC/EN/UL/AAMI ES/CSA 60601-1; IEC/EN/UL/CSA 60730-1	Consumer & Industrial Products	Inspection per IEC 60601-1 – Clause 16.8
Limited Current / Power Test, Hazardous Voltage Measurement	IEC/EN/UL/CSA 60950-1; IEC/EN/UL/CSA 60065; IEC/EN/UL/CSA 61010-1; IEC/EN/UL/AAMI ES/CSA 60601-1; IEC/EN/UL/CSA 60730-1; IEC 60060; IEC 60092	Consumer & Industrial Products	Agilent / Fluke
Dielectric Test	IEC/EN/UL/CSA 60950-1; IEC/EN/UL/CSA 60065; IEC/EN/UL/CSA 61010-1; IEC/EN/UL/AAMI ES/CSA 60601-1; IEC/EN/UL/CSA 60730-1	Consumer & Industrial Products	Agilent / Fluke Voltech / APT

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1859.



Vice President

