



CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

DLS Electronic Systems, Inc.

200 E. Marquardt Drive

Wheeling, IL 60090

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

ISO/IEC 17025:2017

while demonstrating technical competence in the field of

TESTING

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

AT-1859

Certificate Number


ANAB Approval

Certificate Valid Through: 04/23/2020
Version No. 006 Issued: 04/16/2019



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. 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 17025:2017

DLS Electronic Systems, Inc.

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Wheeling, IL 60090
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TESTING

Valid to: April 23, 2020

Certificate Number: AT-1859

Mechanical

Table with 4 columns: Specific Tests and/or Properties Measured, Specification, Standard, Method, or Test Technique, Items, Materials or Product Tested, Key Equipment or Technology. Rows include Vibration, Shock, Op-Shock; Crash Safety Acceleration; Thermal Exposure, Humidity Exposure; Solar Radiation; Dust/Sand Exposure; Salt Fog Exposure; Altitude Testing; Ingress Protection against water; Ingress Protection against dust; Waterproofness.

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; IEC/EN/UL 62368-1	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; IEC/EN/UL 62368-1	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; IEC/EN/UL 62368-1	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



Electrical

Test Method	Test Specification(s)	Range	Comments
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; IEC/EN/UL 62368-1	Consumer & Industrial Products	Associated Research
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; IEC/EN/UL 62368-1	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; IEC/EN/UL 62368-1	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; IEC/EN/UL 62368-1	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; IEC/EN/UL 62368-1	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; IEC/EN/UL 62368-1	Consumer & Industrial Products	Agilent / Fluke

Note:

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

