SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid to: February 28, 2021 Certificate Number: 3696.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electrical tests on Automotive, Industrial, Commercial, Medical and Military products:

Test Technology/Description:	Test Method [1,2]:
Procedure for Testing Switches	GMW3431
Voltage Drop	Section 4.1.1
Open Circuit Resistance (Max 1 KV AC)	Section 4.1.2
Isolation Resistance (Max 1 KV AC)	Section 4.1.3
Contact Bounce	Section 4.1.11
General Specification for Electrical/Electronic Components – Environmental/Durability	GMW3172
5-Point Functional/Parametric Check	Section 6.1
1-Point Functional/Parametric Check	Section 6.2
Jump Start	Section 8.2.1
Reverse Polarity	Section 8.2.2
Over Voltage	Section 8.2.3
State Change Waveform Characterization	Section 8.2.4
Ground Path Inductance Sensitivity	Section 8.2.5
Parasitic Current	Section 9.2.1
Power Supply Interruptions	Section 9.2.2
Battery Voltage Dropout	Section 9.2.3
Sinusoidal Superimposed Voltage	Section 9.2.4
Pulse Superimposed Voltage	Section 9.2.5
Intermittent Short Circuit to Battery and to Ground for Input/Output	Section 9.2.6
Continuous Short Circuit to Battery and to Ground for Input/Output	Section 9.2.7
Multiple Power and Multiple Ground Short Circuits Including Pass Through	Section 9.2.8

Test Technology/Description:	**Test Method [1,2]:**
General Specification for Electrical/Electronic Components – Environmental/Durability (cont'd)	
Open Circuit – Single Line Interruption	Section 9.2.9
Open Circuit – Multiple Line Interruption	Section 9.2.10
Ground Offset	Section 9.2.11
Power Offset	Section 9.2.12
Crank Pulse Capacity and Durability	Section 9.2.17
Switched Battery Lines	Section 9.2.18
Electrical Component Environmental Capability Test Performance and Functional Evaluation	Ford CETP: 00.00-E-412 Sections 6.2.1 – 6.2.4
Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies (up to 1 KV AC & 5 KDC)	ASTM D149

[1] Also using customer specific test methods utilizing any combination of test methods, equipment, and parameters above, the laboratory is capable of issuing accredited test reports to these customer specific methods.

[2] Also using similar methods to all of the methods listed above based on the parameters listed in those sections, the laboratory is capable of issuing accredited test reports to these similar methods.

Accredited Laboratory

A2LA has accredited

METHODE ELECTRONICS, INC.

Carthage, IL

for technical competence in the field of

Electrical 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 3rd day of May 2019.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3696.02
Valid to February 28, 2021

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