



Certificate of Compliance

Certificate: 80076688

Master Contract: 602638

Project: 80076688

Date Issued: May 5, 2021

Issued to: AW-Lake Company
2440 W Corporate Preserve Dr., Suite 600
Oak Creek, Wisconsin 53154
UNITED STATES

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: *Faith A. Caprio*
Faith A. Caprio

PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations – Certified to US Standards

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - Certified to U.S. Standards

CLASS C225205 - PROCESS CONTROL EQUIPMENT

CLASS C225285 - PROCESS CONTROL EQUIPMENT-Certified to US Standards

PART A:

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations – Certified to US Standards



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Class I, Division 2, Groups A, B, C & D:

- Ultrasonic Transducer, Model SE16 B*** rated 10V max, 100mA max. Non-Incendive when installed as per Dwg. SESPEC-INST-04 or SESPEC-INST-06.
- Ultrasonic Transducer, Model SE16 A*** rated 10V max, 100mA max. Non-Incendive when installed as per Dwg. SESPEC-INST-07.
- Ultrasonic Transducer, Model SE16 C*** rated 10V max, 100mA max. Non-Incendive when installed as per Dwg. SESPEC-INST-09.

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - Certified to U.S. Standards

Class I, Division 1, Groups C and D; Class II, Groups E, F and G; Class III; Type 4:

- Ultrasonic Transducer, Model SE16B*** Series, rated 10V max, 100mA max. Installed as per Dwg. SESPEC-INST-03 or SESPEC-INST-05. Intrinsically safe with the following parameters:

V_{max}/U_i: 9.6V
I_{max}/I_i: 400mA
P_{max}/P_i: 907mW
C_i: 47.19nF
L_i: 110.1μH

- Ultrasonic Transducer, Model SE16A*** Series, rated 10V max, 100mA max. Installed as per Dwg. SESPEC-INST-07. Intrinsically safe with the following parameters:

V_{max}/U_i: 9.6V
I_{max}/I_i: 400mA
P_{max}/P_i: 907mW
C_i: 47.19nF
L_i: 110.1μH

- Ultrasonic Transducer, Model SE16C*** Series, rated 10V max, 100mA max. Installed as per Dwg. SESPEC-INST-08. Intrinsically safe with the following parameters:

V_{max}/U_i: 9.6V
I_{max}/I_i: 400mA
P_{max}/P_i: 907mW
C_i: 47.19nF
L_i: 110.1μH



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Project: 80076688

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PART B:

CLASS - C225205 - PROCESS CONTROL EQUIPMENT

CLASS - C225285 - PROCESS CONTROL EQUIPMENT-Certified to US Standards

Level and Flow meter model CUTT input rated 100-240Vac, 50/60Hz, 30 Watts or 115Vac, 50/60Hz, 30 Watts or 230Vac, 50/60Hz, 30 watts or 9-32Vdc, 9 Watts max; relay contacts rated 5A, 240Vac; Enclosure rated Type 4X; Ambient -23 to 60°C, Installation Category II, Pollution Degree 4, Altitude up to 5000 meters

Notes:

- 1) Model number may be followed by up to 9 suffix characters denoting options.

CLASS - C225803 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

CLASS - C225883 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-Incendive-Systems- For Hazardous Locations-Certified to U.S. Standards

Class I, Groups C and D; Class II, Groups E, F and G; Class III:

Level and Flow meter model CUTT; for mounting in non-hazardous locations; input rated 100-240Vac, 50/60Hz, 30 Watts or 115Vac, 50/60Hz, 30 Watts or 230Vac, 50/60Hz, 30 watts or 9-32Vdc, 9 Watts max ; relay contacts rated 5A, 240Vac; Enclosure rated Type 4X; Ambient -23 to 60°C, Installation Category II, Pollution Degree 4, Altitude up to 5000 meters

Notes:

- 1) Model number may be followed by up to 9 suffix characters denoting options.

CLASS - C225804 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe, Entity - For Hazardous Locations

CLASS - C225884 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity-- For Hazardous Locations - Certified to US Standards

Level and Flow meter model CUTT; for mounting in non-hazardous locations; input rated 100-240Vac, 50/60Hz, 30 Watts or 115Vac, 50/60Hz, 30 Watts or 230Vac, 50/60Hz, 30 watts or 9-32Vdc, 9 Watts max ; relay contacts rated 5A, 240Vac; Enclosure rated Type 4X; Ambient -23 to 60°C, Installation Category II, Pollution Degree 4, Altitude up to 5000 meters

Notes:

- 1) Model number may be followed by up to 9 suffix characters denoting options.



Certificate: 80076688
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APPLICABLE REQUIREMENTS

PART A:

CAN/CSA Std. C22.2 No. 0-M91	-	General Requirements - Canadian Electrical Code, Part II
CAN/CSA-C22.2 No. 94-M91	-	Special Purpose Enclosures
CAN/CSA-C22.2 No.157-92	-	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CSA Standard C22.2 No. 213-M1987	-	Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
UL 50 (11th Ed.)	-	Enclosures for Electrical Equipment
UL 913, 7th Ed.	-	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous (Classified) Locations
ANSI/ISA 12.12.01-2012	-	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

PART B:

CAN/CSA-C22.2 No. 61010-1-04	-	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
ISA 61010-1 (82.02.01) 2 nd	-	Safety Standards for Electrical and Electronic Test, Measuring, Controlling and Related Equipment - General Requirements.
UL 61010-1 2 nd	-	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
CSA-C22.2 No. 157-92	-	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
UL Std. No 913-97	-	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations

MARKINGS

PART A:

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Certificate: 80076688
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Nameplate adhesive label material approval information:

Markings appear on a CSA Accepted Adhesive-type nameplate, manufactured by Labelcraft Products Ltd., Type A – Heavy Duty (Pressure Sensitive “300”).

The following marking details appear:

- Company Name, enter MC or Customer name
- Model number, As specified in the PRODUCTS section, above.
- Serial number, As specified in the PRODUCTS section, above.
- Electrical rating, As specified in the PRODUCTS section, above.
- Hazardous Location designation, As specified in the PRODUCTS section, above.
- Special purpose enclosure designation, "Type 4"
- CSA Monogram, with “C” and “US”
- The symbol “Ex ia” and the words "INTRINSICALLY SAFE"
- Reference to Control Drawing(s)

Company’s name (“AW-LAKE”), and/or CSA file number (602638), type designation, electrical ratings, serial number or date coding, the CSA Mark appear in a permanent manner on each unit, and any other information as specified in the Certification Report.


PART B:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

- Submitter's identification (company name and/or file number and/or registered tradename);
- Model designation;
- Electrical rating;
- Date of manufacture (or traceable serial number);
- The CSA Monogram with C/US subscript; The product may bear one of the following CSA

Markings:  ,or  ,or  .

- The IEC 417, No. 5019a Earthing symbol; 

- The Functional Earth symbol 
- Terminal Identification

The following additional markings are also provided in the unit’s enclosure.

- “CAUTION: BONDING BETWEEN CONDUIT CONNECTIONS IS NOT AUTOMATIC AND MUST BE PROVIDED AS A PART OF THE INSTALLATION” or alternatively, “CAUTION:



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Master Contract: 602638

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NONMETALLIC ENCLOSURE DOES NOT PROVIDE GROUNDING BETWEEN CONDUIT CONNECTIONS. USE GROUNDING TYPE BUSHINGS AND JUMPER WIRES”.

- “CAUTION: SIGNAL WIRING CONNECTED IN THIS BOX MUST BE RATED AT LEAST 250V” or alternatively, “CAUTION: ALL FIELD WIRING MUST HAVE INSULATION SUITABLE FOR AT LEAST 250V”.

Company’s name (“AW-LAKE”), and/or CSA file number (602638), type designation, electrical ratings, serial number or date coding, the CSA Mark appear in a permanent manner on each unit, and any other information as specified in the Certification Report.



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80076688	May 5, 2021	New Multiple Listing with below models. Model comparison with Reports 156625-1962158 (80046632) and 156625-2075554 (70199100). Classes: 2258 03, 2258 83, 2258 04, 2258 84, 2252 05, 2252 85.

	<u>Submittor Report</u>	<u>Submittor Model Number</u>	<u>Listee Model Number</u>
PART A	156625-1962158 (80046632)	SE16 Series	SE16
PART B	156625-2075554 (70199100)	TTFM 6.1	CUTT