



Certificate of Compliance

Certificate: 2859066

Master Contract: 264779

Project: 2859066

Date Issued: September 11, 2015

Issued to: AW-Lake Company
8809 Industrial Dr
Franksville, WI 53126
USA

Attention: Mr. Michael Pikula

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



Jeannette Keller

Issued by:

Jeannette Keller

PRODUCTS

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 US Standards

Class I, Division 1, Groups A, B, C, D:

Ex ia IIC T4:

Class 1, Zone 0 AEx ia IIC T4:

Gear Flow Meter Models ZHM-efghi.kl.m. Input rated 12-24 Vdc, 25 mA max. Intrinsically safe with power supply entity parameters (pins 1 and 3): $U_i = 30$ Vdc, $I_i = 120$ mA, $P_i = 850$ mW, $C_i = 8$ nF and $L_i = 0$ and Signal output (pins 3 and 4): $V_{max} = 30$ Vdc, $I_{max} = 24.6$ mA, $P_i = 185$ mW, $C_i = 8$ nF and $L_i = 0$. Ambient -40°C to 60°C .

Where:

abc = up to three alphanumeric characters that are not relevant to CSA certification

efghi.kl.m = alphanumeric characters that are not relevant to CSA certification



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For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 60079-0:07	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
CAN/CSA-E60079-11:02	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic Safety "i"
CAN/CSA-C22.2 No. 60079-0:11	Explosive atmospheres — Part 0: Equipment — General requirements
CAN/CSA-C22.2 No. 60079-11:11	Explosive atmospheres — Part 11: Equipment protection by intrinsic safety "i"
ANSI/UL 60079-0:09	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-11:09	Explosive Atmospheres - Part 11: Equipment Protection by Intrinsic Safety "i"
CAN/CSA C22.2 No. 61010.1-04	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
ANSI/UL No. 61010.1-04	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
CAN/CSA C22.2 No. 157-92	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations.
ANSI/UL 913	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations

MARKINGS

- Manufacturer’s name “AW-Lake Company” or CSA Master Contract Number “264779”, adjacent to the CSA Mark in lieu of Manufacturer’s name.
- Model number: as specified in the PRODUCTS section, above.
- Electrical ratings/ Entity Parameters: As specified in the PRODUCTS section, above.
- Ambient temperature rating: as specified in the PRODUCTS section, above (may be abbreviated).
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
- The CSA Mark, as shown on page 1 of the Certificate of Conformity.
- Hazardous Location designation: as specified in the PRODUCTS section, above.
- Temperature Code: as specified in the PRODUCTS section, above.
- “Exia” (shall appear on the product)



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- “INTRINSICALLY SAFE” (may appear on the control drawing)
- “15.2859066” (Certificate number) adjacent to the CSA Monogram

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".



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
2859066	Sept. 11, 2015	Original Certification. Multiple Listing with AW-Lake Co., CMR#4688088 with Model comparison with MC246454, CSA Report 2271396, Project 2607492.

Submitter	Listee
KEM Kueppers Elektromechanik GmbH	AW-Lake Company
ZHM-*	ZHM-*