



Certificate of compliance

VEGASON 6*(*).KX**H/P/F***

CSA 1681386 (LR 23257)

CL I Div 2, GP ABCD; CL II Div 2, GP FG;
CL III Tsee manual;

Ex nA T6...T1 Gc



Document ID: 32573



VEGA

WARNING

SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2 AND
INTRINSIC SAFETY

DO NOT NOT OPEN WHEN AN EXPLOSIVE GAS ATMOSPHERE IS PRESENT OR OPEN CIR-
CUIT BEFORE REMOVING COVER OR KEEP COVERS TIGHT WHILE CIRCUITS ARE ALIVE

OPEN CIRCUIT BEFORE REMOVING COVER OR KEEP COVERSTIGHT WHILE CIRCUITS ARE
ALIVE

1 Certificate



Certificate of Compliance

Certificate: 1681386 **Master Contract:** 153855
Project: 70017758 **Date Issued:** December 11, 2014
Issued to: VEGA Americas, Inc.
 4141 Rosslyn Dr
 Cincinnati, Ohio 45209
 USA
Attention: Nick Ilchovski

The products listed below are eligible to bear the CSA Mark shown



Issued by: Jelena Dzeletovic
 Jelena Dzeletovic

PRODUCTS

CLASS - C2258 02 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-

Class I, Division 2, Groups A, B, C, and D; Class II, Division 2, Groups F and G; Class III Ex nA IIC T6...T1 Gc

Enclosure types 4X, IP66 (6P for Housing Options K, V or 8 only)
 Rated 4-20 mA, 12-36 Vdc for Electronics Option H and 12-32 Vdc for Electronics Option F or P

- **VEGASON 6a.KXbcdefgh, Level Measuring Equipment**
 - a = Configuration: 1, 2, 1Y, 2Y
 - b = Version: A, B
 - c = Process Connection: Two digit alphanumeric variable for connections, which represents a TRI-CLAMP, NPT, G, DN or ASME industry type flange with pressure ratings
 - d = Electronics: F, H or P
 - e = Housing: A, D, K, V, W or 8
 - f = Cable Entry: M or N
 - g = Indicator Control Module (PLICSCOM): A, B or X
- ** For g = A or B, temperature class is T4 @ Ta = 80°C;
 For g = X, temperature class is T6 @ Ta = 70°C or T5 @ Ta = 80°C



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Class II, Division 1, Groups E, F and G; Class III

Enclosure types 4X, IP66 (6P for Housing Options K, V or 8 only)
 Rated 4-20 mA, 12-36 Vdc for Electronics Option H and 12-32 Vdc for Electronics Option F or P

- **VEGASON 6a KRbdefgh, Level Measuring Equipment**

- a = Configuration: 1, 2, 1Y, 2Y
- b = Version: A, B
- c = Process Connection: Two digit alphanumeric variable for connections, which represents a TRI-CLAMP, NPT, G, DN or ASME industry type flange with pressure ratings
- d = Electronics: F, H or P
- e = Housing: A, D, V, W or 8
- f = Cable Entry: M or N
- g = Indicator Control Module (PLICSCOM): A, B or X

** For g = A or B, temperature class is T4 @ Ta = 80°C;
 For g = X, temperature class is T6 @ Ta = 70°C or T5 @ Ta = 80°C.

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

Class I, Division 1, Groups A, B, C, and D; Class II, Division 1, Groups E, F, and G; Class III T*

Ex ia IIC Ga, T6...T1

Enclosure types 4X, IP66 (6P for Housing Options K, V or 8 only)
 Rated 4-20 mA, 12-36 Vdc for Electronics Option H and 12-26 Vdc for Electronics Option F or P
 Intrinsically safe, with entity parameters, for use in Class I, II, III; Division 1; Groups A, B, C, D, E, F, G and Class I, Zone 0, Group IIC in accordance with manufacturer's Control Drawing No. GE2158;
FISCO Field Device parameters: Ui = 17.5V, Ii = 500mA, Pi = 5.5W, Ci = 0 uF, Li = 0 mH

- **VEGASON 6a.KFbdefgh, Level Measuring Equipment**

- a = Configuration: 1, 2, 1Y, 2Y
- b = Version: A, B
- c = Process Connection: Two digit alphanumeric variable for connections, which represents a TRI-CLAMP, NPT, G, DN or ASME industry type flange with pressure ratings
- d = Electronics: F, H or P
- e = Housing: A, D, K, V, W or 8
- f = Cable Entry: M or N
- g = Indicator Control Module (PLICSCOM): A, B or X

** For g = A or B, temperature class is T4 @ Ta = 80°C;
 For g = X, temperature class is T6 @ Ta = 70°C or T5 @ Ta = 80°C



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APPLICABLE REQUIREMENTS

CAN/CSA Standard C22.2 No. 0-M91 <i>(Reaffirmed 2006)</i>	General Requirements - Canadian Electrical Code, Part II
CSA Standard C22.2 No. 0.4-1982 <i>(Reaffirmed 1999)</i>	Bonding and Grounding of Electrical Equipment (Protective Grounding)
CSA Standard C22.2 No. 0.5-1982 <i>(Reaffirmed 2003)</i>	Threaded Conduit Entries
CSA Standard C22.2 No. 25-1966 <i>(Reaffirmed 2004)</i>	Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
CSA Standard C22.2 No. 30-M1986 <i>(Reaffirmed 2007)</i>	Explosion-Proof Enclosures for Use in Class I Hazardous Locations Industrial Products
CSA Std C22.2 No. 60079-0-11	Explosive atmospheres – Part 0: Equipment – General requirements-Second Edition
CSA Std C22.2 No. 60079-1-11	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d” – Second Edition
CSA Std C22.2 No. 60079-15-10	Electrical apparatus for explosive gas atmospheres – Part 15: Construction, test and marking of type of protection “n” electrical apparatus
CSA Std C22.2 No. 60079-11-6	Electrical apparatus for explosive gas atmospheres – Part 11: Intrinsic safety “i”.
UL Std No. 60079-15-13	Explosive atmospheres – Part 15: Equipment protection by type of protection “n”
CAN/CSA Standard C22.2 No. 94-M91 <i>(Reaffirmed 2006)</i>	Special Purpose Enclosures; Industrial Products
CSA Standard C22.2 No. 142-M1987 <i>(Reaffirmed 2004)</i>	Process Control Equipment Industrial Products
CAN/CSA Standard C22.2 No. 157-92 <i>(Reaffirmed 2006)</i>	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CSA Standard C22.2 No. 213-M1987 <i>(Reaffirmed 2008)</i>	Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CSA Standard E60079-0:02: 1995 <i>(Reaffirmed 2008)</i>	Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements
CSA Standard E60079-11:02: 1995	Electrical apparatus for explosive gas atmosphere Part 11: intrinsic safety “i”
IEC 60529: 2001 (w/Amend 1)	Degrees of protection provided by enclosures (IP Code)
IEC 60079-27: 2005	Electrical apparatus for explosive gas atmosphere Part 27: Fieldbus intrinsically safe concept (FISCO) and Fieldbus non-incendive concept (FNICO) – Edition 1 (used as a guide)



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Supplement to Certificate of Compliance

Certificate: 1681386

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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
70017758	Dec 11 2014	Update to the Report 1681386 to split the currently approved model KX to KX which is non-incendive and for Class II Division 1 with model KR and to include revised drawings.
2716429	May 7 2014	Update to add Yokogawa as a trade name, includes new label drawings, model designation and zone ratings.
2333212	Aug 20 2010	Update to report 1681386 to include a revised version of the PLICSCOM display, the PLICSCOM2. Report revised to use accepted format and reissued.
2147036	Mar 24 2009	Update of Report 1681386 to include revised drawings.
1901421	Aug 8 2007	Revised Construction
1815616	Jan 26 2007	Update to Report 1681386 to add FISCO evaluation
1795184	May 25 2006	Revise models designation code.
1717044	Dec 6 2005	Update to report 1681386 to add Class II, Div 1.
1681386	Sep 23 2005	Original certification of VEGASON as intrinsically safe and suitable for Division 2.

Printing date:

VEGA

All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.

Subject to change without prior notice

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