



# Certificate of Compliance

**Certificate:** 70048296 (023257\_0\_000)

**Master Contract:** 153857

**Project:** 70166620

**Date Issued:** 2018-05-28

**Issued to:** Vega Grieshaber KG  
Am Hohenstein 113  
Schiltach, Baden-Württemberg 77761  
GERMANY

**Attention:** Thomas Roming

*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:**  
**Marin Banu**  
**Marin Banu, P. Eng.**

## PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-

CLASS - C225882 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations - Certified to US Standards

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

Class I, Division 1, Groups A, B, C & D;

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

Ex ia IIC T6 – T1 Ga, Gb;

Class I, Zone 0, AEx ia IIC T6 – T1 Ga, Gb

- Model VEGA DIS 82 (\*).abcdefghi Display and Adjustment unit; intrinsically safe with entity parameters; must be installed per control drawing as per Safety Instruction Drawing 51924.  
Electrical ratings: 30 Vdc; 22.5mA max.; 0.983W max.; Operating ambient temperature – 40 to + 60 °C; Temperature Code T6 – T1.

Entity parameters: DIS82 (\*).C\*H (4...20 mA HART) DIS82 (\*).C\*X (4...20 mA)

Ui – 30Vdc;

Ui – 30Vdc;

Ii – 131mA;

Ii – 131mA;





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Pi – 983mW;	Pi – 983mW;
Ci – 3,5nF;	Ci – 0;
Li – 75µH	Li – 5µH

Temperature Code	DIS82 (*).C*H (4...20 mA HART) Maximum ambient temperature (°C)		DIS82 (*).C*X (4...20 mA) Maximum ambient temperature (°C)	
	Zone 0 (Ga)	Zone 1 (Gb)	Zone 0 (Ga)	Zone 1 (Gb)
T6	+ 25	+ 42	+ 28	+ 45
T5	37	57	+40	+60
T4 – T1	+60	+60	+60	+60

**Notes:**

1. For installations in Zone 0 measures shall be taken to exclude ignition sources due to impact or friction for enclosures made of aluminum.
2. Measures shall be taken to minimize risk of ignition due to electrostatic discharge for enclosures containing polymeric materials.
3. Measures shall be taken to minimize risk of ignition due to mechanical impact for models in aluminum enclosure.
4. For Canadian Installations, sensor case must be bonded to ground according to Section 10-614 of the CEC, Part 1.
5. For US Installations, sensor case must be bonded to ground according to Grounding and Bonding requirements for Hazardous Location section 500 of the NEC.

**CLASS 2258 02 – PROCESS CONTROL EQUIPMENT - For Hazardous Locations**

**CLASS 2258 82 – PROCESS CONTROL EQUIPMENT - For Hazardous Locations – Certified to US Standards**

Class I, Division. 1, Groups A, B, C & D;

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

Ex d IIC T6 Gb;

Class I, Zone 1, AEx d IIC T6 Gb

Ex tb IIIC T... Db

Zone 21 AEx tb IIIC T... Db

- Model VEGA DIS 82(\*).abcdefgh Display and Adjustment unit; Explosion proof, Electrical ratings: 35 Vdc; 22.5mA max.; Operating ambient temperature – 40 to + 60 °C; Temperature Code T6

**Notes:**

1. The flameproof joints are not intended to be repaired.
2. For Divisions classified installations enclosures with metric treaded entries shall be installed with certified metric to NPT adaptors.



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3. Measures shall be taken to minimize risk of ignition due to electrostatic discharge for enclosures containing polymeric materials.
4. Measures shall be taken to minimize risk of ignition due to mechanical impact for models in aluminum enclosure.
5. For Canadian Installations, sensor case must be bonded to ground according to Section 10-614 of the CEC, Part 1.
6. For US Installations, sensor case must be bonded to ground according to Grounding and Bonding requirements for Hazardous Location section 500 of the NEC.
7. A conduit seal must be installed within 50mm from the enclosure threaded entry.

**CLASS 2258 02 – PROCESS CONTROL EQUIPMENT - For Hazardous Locations**

**CLASS 2258 82 – PROCESS CONTROL EQUIPMENT - For Hazardous Locations – Certified to US Standards**

Class II, Division 1, Groups E, F & G; Class III  
Ex tb IIIC T... Db  
Zone 21 AEx tb IIIC T... Db  
IP66

- Model VEGA DIS 82(\*)abcd efgh Display and Adjustment unit; Dust-Ignition proof, Electrical ratings: 35 Vdc; 22.5mA max.; Operating ambient temperature – 40 to + 60 °C; Temperature Code T 94 °C

Notes:

1. For Divisions classified installations enclosures with metric treaded entries shall be installed with certified metric to NPT adaptors.
2. Measures shall be taken to minimize risk of ignition due to electrostatic discharge for enclosures containing polymeric materials.
3. Measures shall be taken to minimize risk of ignition due to mechanical impact for models in aluminum enclosure.
4. For Canadian Installations, sensor case must be bonded to ground according to Section 10-614 of the CEC, Part 1.
5. For US Installations, sensor case must be bonded to ground according to Grounding and Bonding requirements for Hazardous Location section 500 of the NEC.

### **APPLICABLE REQUIREMENTS**

C22.2 No 61010-1: 2012	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements, 3 <sup>rd</sup> Edition
ANSI/ISA 61010-1: 2012	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements, 3 <sup>rd</sup> Edition
CAN/CSA-C22.2 No. 60079-0:15	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/ISA 60079-0: 2013	Explosive atmospheres – Part 0: Equipment – General requirements



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C22.2 No 60079-1: 2011	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" – Second Edition
CAN/CSA-C22.2 No. 60079-31:15	Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure "t"
UL 60079-31 2 <sup>nd</sup> Edition	Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure "t"
ANSI/ISA 60079-1: 2009	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" – Sixth Edition
C22.2 No 60079-11: 2014	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i"
ANSI/ISA 60079-11: 2014	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i"
C22.2 No 30-M1986 (R2012)	Explosion-proof enclosures for use in class I hazardous locations
C22.2 No. 25-1966 - 2014	Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
UL 1203 5 <sup>th</sup> Edition	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations

## **MARKINGS**

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.

- CSA Monogram with C-US indicator.
- Submitter Identification
- Certificate reference CSA16CA70048296X
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Ratings
- Hazardous Location Designation
- Temperature Code rating as per product listing
- Ambient temperature range as per product listing
- Installation drawing reference for intrinsically safe models

## **Nameplate adhesive label material approval information:**

Appears on CSA certified label; Controlled by drawings GE3578 / GE3579



## *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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
70166620	2018-05-28	Update CSA HazLoc Certificate 70048296
70048296	2016-05-24	Certification for a new VEGA instrument approval – VEGADIS 82





