



Certificate of Compliance

Certificate: 70048296 **Master Contract:** 153857
Project: 80226827 **Date Issued:** 2025-01-17
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: Ron Bell
Ron Bell

PRODUCTS

Class 2258 02 PROCESS CONTROL EQUIPMENT - For Hazardous Locations
Class 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations
Class 2258 82 PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards
Class 2258 84 PROCESS CONTROL EQUIPMENT - For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups A, B, C & D T6
Class II, Division 1, Groups E, F & G T94°C
Class III
Ex ia IIC T6 – T1 Ga, Gb;
Class I, Zone 0, AEx ia IIC T6 – T1 Ga, Gb
Ambient temperature range: -40 °C to +60 °C.

Display and Adjustment unit; intrinsically safe with entity parameters;

Model(s)	Voltage (VDC)	Current (mA max)	Operating Ambient Temp (°C)	Temperature Code
A DIS 82(*).abcdefgh	30	22.5	-40 to +60	T6-T1





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- must be installed per control drawing as per Safety Instruction Drawing 51924.

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

Ui – 30Vdc;	Ui – 30Vdc;
Ii – 131mA;	Ii – 131mA;
Pi – 983mW;	Pi – 983mW;
Ci – 3,5nF;	Ci – 0;
Li – 75µH	Li – 5µH

Temperature Code	DIS82(*),C*H (4...20 mA HART)		DIS82(*),C*X (4...20 mA)	
	Maximum ambient temperature (°C)		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

Conditions of Acceptability:

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



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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

Display and Adjustment unit; Explosion proof

Model(s)	Voltage (VDC)	Current (mA max)	Operating Ambient Temp (°C)	Temperature Code
VEGA DIS 82(*).abcdefgh	35	22.5	-40 to +60	T6

Conditions of Acceptability:

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

Ex tb IIIC T... Db

Zone 21 AEx tb IIIC T... Db

Display and Adjustment unit; Dust-Ignition proof,

Model(s)	Voltage (VDC)	Current (mA max)	Operating Ambient Temp (°C)	Temperature Code
VEGA DIS 82(*).abcdefgh	35	22.5	-40 to +60	T94 °C

Conditions of Acceptability:

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.

Class I, Division 2, Groups A, B, C & D T6-T1

Class II, Division 1, Groups E, F, G T94°C

Class III



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Display and Adjustment unit; Non-incendive with Class 2 or Limited Energy Source.

VEGA DIS 82(*).abcdefghi

Model(s)	Voltage (VDC)	Current (mA max)	Operating Ambient Temp (°C)	Temperature Code
VEGA DIS 82(*).abcdefgh	35	3.5 to 22.5	-40 to +60	T6-T1

Must be installed with Class 2 or Limited Energy Source.

Electrical ratings: ≤ 35 Vdc; 3.5 to 22.5mA max.; Operating ambient temperature -40 to $+60$ °C; Temperature Code T6 – T1.

Temperature Code	DIS82(*).CAHX Maximum ambient temperature (°C)
	Division
T6	+ 42
T5	+57
T4 – T1	+60

Conditions of Acceptability:

1. For Canadian Installations, sensor case must be bonded to ground according to Section 10-614 of the CEC, Part 1.
2. For US Installations, sensor case must be bonded to ground according to Grounding and Bonding requirements for Hazardous Location section 500 of the NEC.
3. This equipment shall only be powered by a power supply unit with a limited energy electric circuit in accordance with CAN/CSA C22.2 No. 61010-1-12 and ANSI/UL 61010-1, or Class 2 as defined in the Canadian Electrical Code C22.1, Section 16-200 and/or National Electrical Code (NFPA 70), article 725.121.

APPLICABLE REQUIREMENTS



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CSA C22.2 No. 61010-1-12 - Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements

CSA C22.2 No. 25:17 - Fourth Edition - Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations

CSA C22.2 No. 30:20 - Fourth Edition - Including Update No. 1 - March 2023 - Explosion-proof equipment

CSA C22.2 No. 213-17 - Third Edition - Including Update No. 3 - April 2021 - Nonincendive electrical equipment for use in Class I and II, Division 2 and Class III, Divisions 1 and 2 hazardous (classified) locations

CAN/CSA C22.2 No. 60079-0:15 - Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

CSA C22.2 No. 60079-1:11 - Second Edition - Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures “d”

CAN/CSA C22.2 No. 60079-11:14 - Second Edition - Explosive atmospheres - Part 11: Equipment protection by intrinsic safety “i”

CAN/CSA C22.2 No 60079-31:15 - Second Edition - Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure “t”

UL 61010-1, 3rd Edition (May 11, 2012) - UL Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements

UL 121201:2017 - Ninth Edition-Including Revisions through April 1, 2021 - UL Standard for Safety Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

ANSI/UL 1203 - Fifth Edition - UL Standard for Safety Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Location

ANSI/UL 60079-0-2013 - ANSI/UL 60079-0-2013 - Standard for Safety for Explosive Atmospheres - Part 0: General Requirements

ANSI/UL 60079-1:2009 - Sixth Edition - Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Encloses “d”

ANSI/UL 60079-11:2013 - Sixth Edition - Including revisions through January 25, 2023 - UL Standard for Safety Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety “i”

ANSI/UL 60079-31:2015 - Second Edition - Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure ‘t’

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.

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The following markings appear on CSA and UL accepted labels, as specified in label drawings:





- 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 / 1031165

Copy of the rating label

Intrinsically safe version:

VEGADIS 82			
DS82.C*....			
Ex ia IIC T6...T1 Ga; CL I Zone 0 AEx ia IIC T6...T1 Ga		CSA16CA70048296X	123. 123..
IS CL I Div 1 GP ABCD, CL II DIV 1 GP EFG CL III		Install per doc. 51924	
Electronics: —⊖			
Protection: ****			
Temperature: see manual and approval documents			
HW.Ver *.*.*	SW.Ver *.*.*	○ S/N: *****	
Order: *****/**	****		
VEGA	7776	Schiltach/Germany	www.vega.com

Explosion proof version:

VEGADIS 82			
DS82.CE....			
Ex d IIC T6 Gb; CL I Zone 1 AEx d IIC T6 Gb		CSA16CA70048296X	123. 123..
CL I Div 1 GP ABCD, CL II DIV 1 GP EFG, CL, III Ta=-40°C...+60°C			
Electronics: —⊖			
Protection: ****			
Temperature: see manual and approval documents			
HW.Ver *.*.*	SW.Ver *.*.*	○ S/N: *****	
Order: *****/**	****		
VEGA	7776	Schiltach/Germany	www.vega.com

Dust-Ignition proof version:



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VEGADIS 82			
DS82.CR.....			
Ex tb IIIC T... Db Zone 21 AEx tb IIIC T... Db		CSA16CA70048296X	123..
CL II Div 1 GP EFG, CL III Ta=-40°C...+60°C			123..
Electronics:			
—⊖ ⊖			
Protection: ****			
Temperature: see manual and approval documents			
HW.Ver *.*.* SW.Ver *.*.*		○ S/n: *****	
Order: *****/*** ****			
VEGA	7776/ Schiltach/Germany	www.vega.com	

Non-Incendive "NI", type ec version

VEGADIS 82			
DIS82.CA*****			
CL I, DIV 2 GP ABCD T6...T1; CL II, DIV 1 GP EFG T94°C; CL III;		CSA16CA70048296X	12345
Electronics: DS82H			
⊖ max. 35 VDC 4...20 mA HART M20x1,5			
Protection: ****			
Temperature: see manual and approval documents			
SW Ver x.x.x HW Ver x.x.x		s/n: *****	
2024			
VEGA	D-77761 Schiltach, Made in Germany	www.vega.com	



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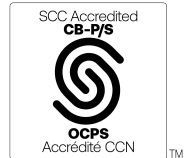
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Notes:

Products certified under Class(es) C225802, C225804, C225882, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





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
80226827	2025-01-17	Update cSAus report 70048296 for Model VEGA DIS 82 Series Display and Adjustment unit to update circuit diagram SB1415, address certification notices Hazardous Locations Products No. 35 and 38, and addition of a new model with Hazardous Locations rating Class I, Division 2, Groups ABCD; Class II, Division 1 Groups EFG, Class III. The new model will have the same enclosure as Ex tb rated model and same electronics as Ex ia rated model.
70166620	2018-05-28	Update CSA HazLoc Certificate 70048296
70048296	2016-05-24	Certification for a new VEGA instrument approval – VEGADIS 82

