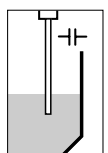


## Safety Instructions VEGACAP 6\*.UX



33382







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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

### I. Intrinsically Safe (Div. 1) Version

#### **CP6a.UFbcZde, Level Measuring Equipment**

IS / I,II,III / 1 / ABCDEFG / T5 Ta =80°C, T6 Ta = 70°C; GE2277; Entity; Type 4X 6P\*, IP66

I / 0 / AEx ia / IIC / T5 Ta =80°C, T6 Ta = 70°C; GE2277; Entity; Type 4X 6P\*, IP66

DIP / II,III / 1 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

NI / I / 2 / ABCD / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

NI / I / 2 / IIC / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

S / II,III / 2 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

Entity Parameters:

Reference Control Drawing No. GE2277 for Entity Parameter values.

a = Configuration: 2

b = Version/Temperature range: A, B, C or D

c = Process Connection: Two digit alphanumeric variable for connections, which represents a LA, NPT, G, TRI- CLAMP, DN or ASME industry type flange with pressure ratings

d\* = Housing: A, K, 8 (6P rating for housing option K, 8 or V only) or V

e = Cable Entry: N or M

#### **CP6a.UFbcZde, Level Measuring Equipment**

IS / I, II, III / 1 / ABCDEFG / T5 Ta =80°C, T6 Ta = 70°C; GE2277; Entity; Type 4X 6P\*, IP66

I / 0 / AEx ia / IIC / T5 Ta =80°C, T6 Ta = 70°C; GE2277; Entity; Type 4X 6P\*, IP66

DIP / II,III / 1 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

NI / I / 2 / ABCD / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

NI / I / 2 / IIC / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

S / II, III / 2 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

Entity Parameters:

Reference Control Drawing No. GE2277 for Entity Parameter values.

a = Configuration: 3 or 4

b = Version/Temperature range: E(only available in configuration option 3), F, or G

c = Process Connection: Two digit alphanumeric variable for connections, which represents a LA, NPT, G, TRI- CLAMP, DN or ASME industry type flange with pressure ratings

d\* = Housing: A, K, 8 (6P rating for housing option K, 8 or V only) or V

e = Cable Entry: N or M

**CP6a.UFbcZde, Level Measuring Equipment**

IS / I, II, III / 1 / ABCDEFG / T5 Ta =80°C, T6 Ta = 70°C; GE2277; Entity, Type 4X 6P\*, IP66

I / 0 / AEx ia / IIC / T5 Ta =80°C, T6 Ta = 70°C; GE2277; Entity, Type 4X 6P\*, IP66

DIP / II,III / 1 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

NI / I / 2 / ABCD / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

NI / I / 2 / IIC / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

S / II, III / 2 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

Entity Parameters:

Reference Control Drawing No. GE2277 for Entity Parameter values.

a = Configuration: 5

b = Version/Temperature range: K, L, M, S, U, V, W or T.

c = Process Connection: Two digit alphanumeric variable for connections, which represents a LA, NPT, G, TRI- CLAMP, DN or ASME industry type flange with pressure ratings

d\* = Housing: A, K, 8 (6P rating for housing option K, 8 or V only) or V

e = Cable Entry: N or M

**CP6a.UFbcZde, Level Measuring Equipment**

IS / I, II, III / 1 / ABCDEFG / T5 Ta =80°C, T6 Ta = 70°C; GE2277; Entity, Type 4X 6P\*, IP66

I / 0 / AEx ia / IIC / T5 Ta =80°C, T6 Ta = 70°C; GE2277; Entity, Type 4X 6P\*, IP66

DIP / II,III / 1 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

NI / I / 2 / ABCD / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

NI / I / 2 / IIC / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

S / II, III / 2 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

Entity Parameters:

Reference Control Drawing No. GE2277 for Entity Parameter values.

a = Configuration: 6

b = Version/Temperature range: N or 3.

c = Process Connection: Two digit alphanumeric variable for connections, which represents a LA, NPT, G, TRI- CLAMP, DN or ASME industry type flange with pressure ratings

d\* = Housing: A, K, 8 (6P rating for housing option K, 8 or V only) or V

e = Cable Entry: N or M

II. Nonincendive (Div. 2) Version

**CP6a.UXbcdef, Level Measuring Equipment**

NI / I / 2 / ABCD / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

DIP / II,III / 1 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

I / 2 / AEx nC / IIC / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

S / II,III / 2 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

a = Configuration: 2

b = Version/Temperature range: A, B, C or D

c = Process Connection: Two digit alphanumeric variable for connections, which represents a LA, NPT, G, TRI- CLAMP, DN or ASME industry type flange with pressure ratings

d = Electronics: C, R, T, or Z

e\* = Housing: A, K, 8 (6P rating for housing option K, 8 or V only) or V

f = Cable Entry: N or M

Special Conditions of Use:

- For Division 2, and Zone 2 approvals, the probes are suitable for connections to Class I, II, III, Division 1, Groups A, B, C, D, E, F, and G and Class I, Zone 0, Group IIC Hazardous (Classified) Locations.

**CP6a.UXbcdef, Level Measuring Equipment**

NI / I / 2 / ABCD / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

NI / I / 2 / AEx nC / IIC / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66



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DIP / II,III / 1 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

S / II,III / 2 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

a = Configuration: 3 or 4

b = Version/Temperature range: E(only available in configuration option 3), F, or G

c = Process Connection: Two digit alphanumeric variable for connections, which represents a LA, NPT, G, TRI- CLAMP, DN or ASME industry type flange with pressure ratings

d = Electronics: C, R, T, or Z

e\* = Housing: A, K, 8 (6P rating for housing option K, 8 or V only) or V

f = Cable Entry: N or M

*Special Conditions of Use:*

1. For Division 2, and Zone 2 approvals, the probes are suitable for connections to Class I, II, III, Division 1, Groups A, B, C, D, E, F, and G and Class I, Zone 0, Group IIC Hazardous (Classified) Locations

#### **CP6a.UXbcdef, Level Measuring Equipment**

NI / I / 2 / ABCD / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

NI / I / 2 / AEx nC / IIC / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

DIP / II,III / 1 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

S / II,III / 2 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

a = Configuration: 5

b = Version/Temperature range: K, L, M, S, U, V, W or T.

c = Process Connection: Two digit alphanumeric variable for connections, which represents a LA, NPT, G, TRI- CLAMP, DN or ASME industry type flange with pressure ratings

d = Electronics: C, R, T, or Z

e\* = Housing: A, K, 8 (6P rating for housing option K, 8 or V only) or V

f = Cable Entry: N or M

*Special Conditions of Use:*

1. For Division 2, and Zone 2 approvals, the probes are suitable for connections to Class I, II, III, Division 1, Groups A, B, C, D, E, F, and G and Class I, Zone 0, Group IIC Hazardous (Classified) Locations.

#### **CP6a.UXbcdef, Level Measuring Equipment**

NI / I / 2 / ABCD / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

NI / I / 2 / AEx nC / IIC / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

DIP / II,III / 1 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

S / II,III / 2 / EFG / T5 Ta =80°C, T6 Ta = 70°C; Type 4X 6P\*, IP66

a = Configuration: 6

b = Version/Temperature range: N or 3.

c = Process Connection: Two digit alphanumeric variable for connections, which represents a LA, NPT, G, TRI- CLAMP, DN or ASME industry type flange with pressure ratings

d = Electronics: C, R, T, or Z

e\* = Housing: A, K, 8 (6P rating for housing option K, 8 or V only) or V

f = Cable Entry: N or M

*Special Conditions of Use:*

1. For Division 2, and Zone 2 approvals, the probes are suitable for connections to Class I, II, III, Division 1, Groups A, B, C, D, E, F, and G and Class I, Zone 0, Group IIC Hazardous (Classified) Locations.



## Equipment Ratings:

### I. Intrinsically Safe (Div. 1) Version

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. GE2181; Nonincendive for Class I, Division 2, Groups A, B, C, D and Class I, Zone 2, Group IIC; Suitable for Class II, Division 2, Groups F, G; Dust Ignition Proof for Class II, III, Division 1, Groups E, F, and G Hazardous (Classified) indoor/outdoor (Type 4X 6P\*, IP66) Locations.

### II. Nonincendive (Div. 2) Version

The following was evaluated as Nonincendive for Class I, Division 2, Groups A, B, C, D and Class I, Zone 2, Group IIC; Suitable for Class II, Division 2, Groups E, F, G; Dust Ignition Proof for Class II, III, Division 1, Groups E, F, and G Hazardous (Classified) indoor/outdoor (Type 4X 6P\*, IP66) Locations.

## FM Approved for:

VEGA Grieshaber KG  
Postfach 1142  
D-77757 Schiltach, Germany

Ohmart Vega Corporation  
4241 Allendorf Drive  
Cincinnati, OH 45209



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This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3610	1999
Class 3611	2004
Class 3810	2005
ANSI/ISA-12.12.02	2003

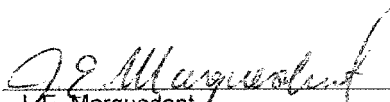
Original Project ID: 3022694


Approval Granted: June 22, 2006

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
070505	July 17, 2007		
071002	October 30, 2007		
3031022	February 5, 2009		

FM Approvals LLC

  
 J.E. Marquedant  
 Group Manager, Electrical

  
 Date



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