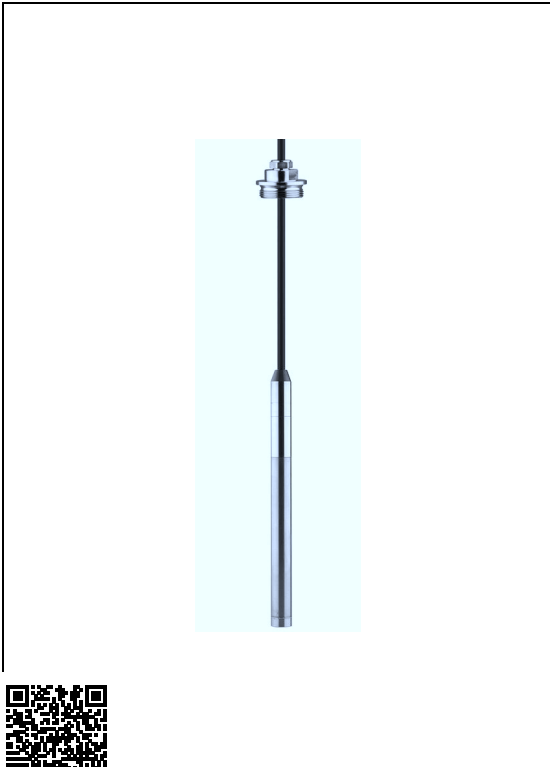


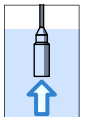
# VEGA

## Safety instructions

VEGAWELL WL52/72.KF/KB\*\*\*\*\*



42250



1 Certificate



# Certificate of Compliance

**Certificate:** 2501894 (LR 108043)

**Master Contract:** 153857

**Project:** 2573211

**Date Issued:** January 10, 2013

**Issued to:** Vega Grieshaber KG

Level Measurement  
Am Hohenstein 113  
Schiltach, 77757  
Germany  
Attention: Ken Geiger

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



*Jelena Dzeletovic*

**Issued by:** Jelena Dzeletovic

**PRODUCTS**

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

**CLASS 2258 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, T6, Encl. Type 4X; IP68

Class I and II Zone 2

Ex nL IIC

VEGAWELL 52, 72 Pressure Transmitters instruments for level and gauge measurement for use in hazardous locations; Temperature code T6@ Ta = 60°C or T4@ Ta = 80°C. Ambient Temperature -40°C to +80°C.

Note: The suitability of the final installation is to be determined by CSA or the local authorities having jurisdiction.

*VEGAWELL WL52.Ka bcd efghij, Pressure Transmitter*

a = Approval: X or A

b = Fastening / Material: Two digit code representing fitting and material type



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- c = Version / Process temperature: A, D, B
- d = Length: M, T, L, S, K D, E, F
- e = Transmitter material / Diameter: D, V, K, P, T, S, G
- f = Seal measuring cell: 1, 2, 3, 5, 7, 8, I, P
- g = Measuring range: A, B, C, D, E, F, G, H, 1, 2, 3, 4, 5, 7, 9
- h = Electronics: C, D
- i = Deviation in characteristic: 1, 2
- j = Transmitter options: X, V, G, K, F, S

**VEGAWELL WL72.Ka bcdefgh, Pressure Transmitter**

- a = Approval: X or A
- b = Version: A, D, B, R, E, T
- c = Process fitting / Material: Two digit code representing fitting and material type
- d = Transmitter protection: X, P, L, V, G, K, H, A, B, C, R
- e = T Deviation in characteristics: 1, 2
- f = Pressure / Measuring range: A, B, C, D, E, F, G, H, 1, 2, 3, 4, 5, 6, 7, Y
- g = Electronics: H, D, C
- h = Length: K, L, M, T, R, X

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

Class I, Div 1 Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class III, T6. Encl. Type 4X

Ex ia IIC

VEGAWELL 52, 72 Pressure Transmitters instruments for level and gauge measurement for use in hazardous locations; Ambient Temperature -40°C to +80°C.



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Intrinsically safe, with entity parameters, for use in Class I, II, III, Division 1, Groups A, B, C, D, E, F, G, T6@  
 Ta = 60°C or T4@ Ta = 80°C, in accordance with manufacturer's Control Drawing No. GE2627; Encl. Type 4X;

***VEGAWELL WL52.Ka bcd efghij, Pressure Transmitter***

- a = Approval: F or B
- b = Fastening / Material: Two digit code representing fitting and material type
- c = Version / Process temperature: A, D, B
- d = Length: M, T, L, S, K, D, E, F
- e = Transmitter material / Diameter: D, V, K, P, T, S, G
- f = Seal measuring cell: 1, 2, 3, 5, 7, 8, I, P
- g = Measuring range: A, B, C, D, E, F, G, H, 1, 2, 3, 4, 5, 7, 9
- h = Electronics: C, D
- i = Deviation in characteristic: 1, 2
- j = Transmitter options: X, V, G, K, F, S

***VEGAWELL WL72.Ka bcd efgh, Pressure Transmitter***

- a = Approval: F or B
- b = Version: A, D, B, R, E, T
- c = Process fitting / Material: Two digit code representing fitting and material type
- d = Transmitter protection: X, P, L, V, G, K, H, A, B, C, R
- e = T Deviation in characteristics: 1, 2
- f = Pressure / Measuring range: A, B, C, D, E, F, G, H, 1, 2, 3, 4, 5, 6, 7, Y
- g = Electronics: H, D, C
- h = Length: K, L, M, T, R, X



**Certificate:** 2501894 (LR 108043)

**Master Contract:** 153857

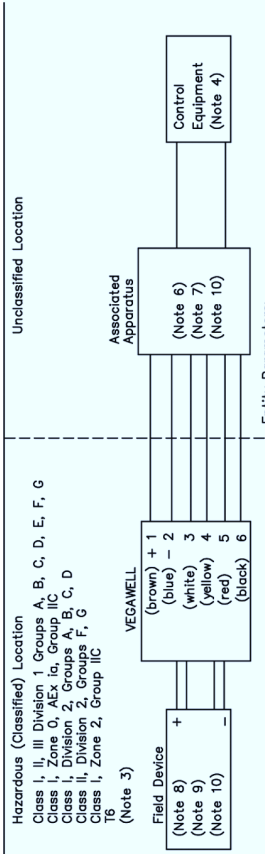
**Project:** 2573211

**Date Issued:** January 10, 2013

**APPLICABLE REQUIREMENTS**

- CSA Std C22.2 No. 0 -10 - General Requirements – Canadian Electrical Code – Part II
- CSAS td C22.2 No 0.4-M1982 (R 2006) - Bonding and Grounding of Electrical Equipment
- CSA Std C22.2 No. 0.5-M1982 (R 2006) - Threaded Conduit Entries
- CSA Std C22.2 No. 25-1966 (R 2004) - Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
- CAN/CSA Std C22.2 No. 94-M91 (R 2006) - Special Purpose Enclosures
- CSA Std C22.2 No. 213-M1987 (R 2004) - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
- CSA Std C22.2 No. 142-M1987 (R 2004) - Process Control Equipment
- CAN/CSA-C22.2 No. 60079-0:07 - Electrical apparatus for explosive gas atmospheres.  
PART 0: General requirements
- CAN/CSA-C22.2 No. 60079-11:11 - Electrical apparatus for explosive gas atmospheres.  
PART 11: Intrinsic safety "i"
- CAN/CSA-C22.2 No. 60079-15:12 - Electrical apparatus for explosive gas atmospheres.  
PART 15: Construction, test and marking of type of protection "n" Electrical apparatus
- CAN/CSA-C22.2 No. 60529:05 - Degrees of protection provided by enclosures (IP Code)

ECO NUMBER	REV	REVISION	BY	DATE
18733	01	UPDATED VEGA LOGO	XL	08-11-09



For Temperature Measuring Circuit  
(3, 4, 5, 6)  
 $U_i = 30V$ ,  $P_i = 80mW$ ,  $C_i = 0nF$ ,  $L_i = 0uH$   
 For fixed connection cable  
 $L' = 0.6 uH/m$   
 $C' = \text{wire/wire} = 188 pF/m$   
 $C' = \text{wire/shield} = 555 pF/m$

Entity Parameters:  
 For power supply and signal circuit (1, 2)  
 Input:  $V_{max} = 30V$ ,  $I_{max} = 131mA$ ,  $P_{max} = 983mW$ ,  $C_i = 3.9nF$ ,  $L_i = 51uH$

For fixed connection cable  
 $L' = 0.6 uH/m$   
 $C' = \text{wire/wire} = 133 pF/m$   
 $C' = \text{wire/shield} = 215 pF/m$

**Notes:**

- The Intrinsic Safety Entity concept allows the interconnection of two intrinsically safe devices FM/CSA Approved with entity parameters not specifically examined in combination as a system when:  
 Uo or Voc or Vt  $\leq$  Vmax, Io or Isc or It  $\leq$  Imax, Co or Co  $\geq$  Ci + Ccable, La or Lo  $\geq$  Li + Lcable, Po  $\leq$  Pi.
- For Division 2 installations, the Associated Apparatus is not required to be FM/CSA Approved under Entity Concept if the VEGAWELL 50/70 Series is installed in accordance with the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code, CSA C22.2 Part 1 Appendix F, including noninductive field wiring.
- Division 2 installations with associated apparatus shall not use or generate more than 250 Vrms or Vdc.
- Control equipment connected to the Associated Apparatus shall not use or generate more than 250 Vrms or Vdc.
- Division 1 installations shall be in accordance with ANSI/ISA RP12.06.01 "Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations" and the National Electrical Code (ANSI/NFPA 70) or Canadian Electrical Code.
- For Division 1 installations, the configuration of associated Apparatus shall be FM/CSA Approved under Entity Concept.
- Associated Apparatus manufacturer's installation drawing shall be followed when installing this equipment.
- The configuration of Field Device must be FM/CSA Approved under Entity Concept.
- The Field Device manufacturer's installation drawing shall be followed when installing this equipment.
- The VEGAWELL 50/70 Series are FM/CSA Approved for Class I, Zone 0, applications, if connecting AEX [b] Associated Apparatus or AEX [b] S1. Field Device to the VEGAWELL 50/70 Series the U.S. circuit is only suitable for Class I, Zone 1, and is not suitable for Class I, Zone 0 or Class I, Division 1, Hazardous (Classified) Locations.
- No revision to drawing without prior Agency Approval.

PART NUMBER	GE2627
DRAWING NUMBER	VEGA AMERICAS INC. 4241 Alameda Drive Channahon, Ohio 44809-USA
<b>VEGA</b>	
<b>INSTALLATION CONTROL DIAGRAM:</b>	
<b>VEGAWELL 50/70 SERIES</b>	
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Rev. #/Date	08/11/09 K.C.
Rev. #/Date	08/11/09 J.A. - GE2627





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