

Submersible pressure transmitter model LH-20

GB

GE 3032



Submersible pressure transmitter model LH-20



Part of your business



**WARNING:**

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

**CAUTION:**

**AVOID ELECTROSTATIC CHARGE**

# 1 Certificate



## Certificate of Compliance

Certificate: 2611445

Master Contract: 258130

Project: 2611445

Date Issued: April 24, 2013

Issued to: **WIKA Alexander Wiegand SE & Co. KG**  
Alexander-Wiegand-Str 30  
Klingenberg, 63911  
GERMANY  
Attention: Mr. Simon Edler

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



Issued by: *Rachel Miranda*  
Rachel Miranda

### PRODUCTS

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

LH-20: Pressure Transmitters instruments for level and gauge measurement for use in hazardous locations;  
Ambient Temperature -40°C to +80°C.

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. GE3032; Encl. Type 4X;

Nomenclature:

LH-20-abcde-fghijk-lm-n-opqr st-u-vwx-y

abcde = Absolute or relative pressure  
Pressure Range

fghijk = Cable Material  
Unit of cable length  
Cable length

l = Signal Output



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A = 4...20 mA 2 Wire  
R = 4...20mA + HART + Pt100

m = Accuracy

n = Housing

opqr = CISG = CSA approved IS

s = additional approvals  
Z = none  
G = Ship Classification approval.

t = certificate of potable water conformity

u = certificates

vw = process connection

x = sealing sensor

y = additional order details

#### APPLICABLE REQUIREMENTS

- |                                      |                                                                                                                                               |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| CSA Std C22.2 No. 0 -10              | - General Requirements – Canadian Electrical Code – Part II                                                                                   |
| CSA- C22.2 No 0.4-M1982 (R 2006)     | - Bonding and Grounding of Electrical Equipment                                                                                               |
| CSA-C22.2 No. 0.5-M1982 (R 2006)     | - Threaded Conduit Entries                                                                                                                    |
| CSA-C22.2 No. 25-1966 (R 2004)       | - Enclosures for Use in Class II Groups E, F, and G Hazardous Locations                                                                       |
| CAN/CSA-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. 157-92             | - Intrinsically Safe and Non-incendive Equipment for Use in Hazardous Locations                                                               |
| CAN/CSA-C22.2 No. 60079-0:07         | - Electrical apparatus for explosive gas atmospheres.<br>PART 0: General requirements                                                         |
| CAN/CSA-C22.2 No. 60079-11:11        | - Electrical apparatus for explosive gas atmospheres.<br>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)                                                                                      |



CSA  
Group

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### MARKINGS

All markings shall be in accordance with the requirements of the local regulatory authorities and related standards.

- CSA monogram.
- Company's identification;
- Model designation or equivalent;
- Complete electrical rating;
- Temperature code T4 or T6;
- Maximum Working Pressure
- Maximum ambient temperature 80°C
- Entity parameters (For Class I, Division 1 product);
- Applicable hazardous locations designation;
- Date code or equivalent;
- Cautions, warnings and additional markings as may be required;
  - "WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2 AND INTRINSIC SAFETY"
  - "WARNING - OPEN CIRCUIT BEFORE REMOVING COVER or KEEP COVERS TIGHT WHILE CIRCUITS ARE ALIVE."
  - "CAUTION" – AVOID ELECTROSTATIC CHARGE

### REQUIRED METHOD OF MARKING

Each LH-20 Series Pressure Transmitter is labeled with a nameplate. The enclosures are each provided with an adhesive type label. The adhesive label is manufactured by Brady Worldwide, Inc., Product: B-423 Thermal Transfer Printable Glossy White Polyester Label and Schreiner Group GmbH & Co. KG, Product: Self Adhesive Color Laser Foil KL Black / White (20-91/39-06) and adhesive labels Polyscript Carbo ACE SA.

*Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".*

### Conditions of Acceptability:

1. Installations shall comply with the relevant requirements of the Canadian Electrical Code (CEC)
2. Installations shall comply with the manufacturer's instruction manual.
3. Control room equipment connected to intrinsically safe associated apparatus should not use or generate more than 250 Vrms or DC.
4. See Canadian Electrical Code, CSA C22.1, Part 1, Appendix F for Recommended Practice for Wiring Methods for Hazardous Locations, for guidance on the installation of intrinsically safe apparatus and systems.
5. To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing.





Printing date:



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.



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