

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM22US0003

3. **Equipment:** E-10 and E-11 Pressure Transmitter
(Type Reference and Name)

4. **Name of Listing Company:** Wika Alexander Wiegand SE & Co KG

5. **Address of Listing Company:** Alexander-Wiegand-Str 30
Klingenberg D-63911
Germany

6. The examination and test results are recorded in confidential report number:

3009489 dated 22nd April 2002

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2022, FM Class 3615:2022, FM Class 3810:2021,
ANSI/NEMA 250:1991

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

22 March 2022

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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SCHEDULE



US Certificate Of Conformity No: FM22US0003

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

Explosionproof for Class I, Division 1, Groups A, B, C and D; Dust-ignitionproof for Class II, III, Division 1, Groups E, F and G hazardous (classified) locations, indoors and outdoors (Type 4) with an ambient temperature rating of T6 Ta = -40°C to +60°C and T4 Ta = -40°C to +105°C.

11. The marking of the equipment shall include:

Class I Division 1, Groups A, B, C, D; T6 Ta = -40°C to +60°C and T4 Ta = -40°C to +105°C; Type 4
Class II, III Division 1, Groups E, F, G; T6 Ta = -40°C to +60°C and T4 Ta = -40°C to +105°C; Type 4

12. **Description of Equipment:**

General product information:

The subject models consist of electronics mounted inside an explosion proof/dust ignition proof enclosure.

The Model E-10 contains gauge process connections.

The model E-11 is equipped with a flush diaphragm.

Both model versions measure pressure by means of a thinfilm strain gauge or a piezoresistive sensor depending on the rated pressure.

The piezoresistive sensor is applicable for pressures up to 25 bar (or < 500 psi), the thinfilm strain gauge up to 1,000 bar (max. 15,000 psi).

The Stainless-steel explosion proof housing consists of:

- Process connector (can be provided with different outer threads).
- Tube with electronics
- Electrical connector with 1/2 NPT outer thread
 - Code 2X with flying leads:
Provided with a shielded 2 or 3 wire cable.
This design is unsealed and must be conduit sealed at the enclosure wall.
 - Code 3X:
Provided with 3 or 4 open leads and a factory seal with casting resin.
This version can therefore bear the term "Factory sealed".
- optional factory installed explosion proof junction box; suitable for T_a up to 60°C only (Special design feature W)

Data:	
Supply Voltage	Max. 30 V dc
Power Dissipation	Max. 1 W
Ambient temperature range	T6: -40°C to +60°C T4: -40°C to +105°C

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E-10-a-bc-d-fgh Pressure Transmitter.

- a = Single Letter Code Signal Output A, F, G, K or 1.
- b = Single Letter Code Representing Unit of Measure.
- c = Two Letter Code Representing Unit of Measure (Not Exceeding 15,000 Psi or Equivalent).
- d = Process Connection any two-digit characters representing process connection according to industry standards (ANSI, ASME, DIN, ISO) with pressure ratings.
- f = Single Letter Special Design Features Z, L, E, A, W (W is suitable for T ambient up to 60°C only).
- g = Single Letter fixed placeholder Code "G"
- h = Two Letter Code Electrical Connection 2X, 3X.

E-11-a-bc-d-efgh Pressure Transmitter.

- a = Single Letter Code Signal Output A, F, G, K or 1.
- b = Single Letter Code Representing Unit of Measure.
- c = Two Letter Code Representing Unit of Measure (Not Exceeding 7,500 Psi or Equivalent).
- d = Process Connection any two-digit characters representing process connection according to industry standards (ANSI, ASME, DIN, ISO) with pressure ratings.
- e = Material of Wetted Parts 1, L, B, S, T, U.
- f = Single Letter Special Design Features Z, L, E, A, W (W is suitable for T ambient up to 60°C only).
- g = Single Letter fixed placeholder Code "G"
- h = Two Letter Code Electrical Connection 2X, 3X.

13. Specific Conditions of Use:

None

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
22 nd April 2002	Original Issue.
22 nd March 2022	<u>Supplement 6:</u> Report Reference: – PR461404 Dated 22 nd March 2022. Description of the Change: Addition of alternate casting resin material at the cable entry for the E-10 and E-11 Pressure Transmitter.

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