

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM21US0019
3. **Equipment:** WUC-1 and WU-2 Ultra High Purity Transducers
(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 63911
Germany
6. The examination and test results are recorded in confidential report number:

3036740 dated 16th December 2009
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2018, FM Class 3611:2018, FM Class 3810:2018, ANSI/ISA-61010-1:2004
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.
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:**

Nonincendive Apparatus for use in Class I, Division 2, Groups A, B, C & D; Nonincendive for use in Class I, Zone 2, Group IIC hazardous (classified) locations
11. The marking of the equipment shall include:

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

23 February 2021

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
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

SCHEDULE



US Certificate Of Conformity No: FM21US0019

WUC-1

Class I Division 2, Groups A, B, C, D; T6 Ta = -20°C to +40°C/+60°C/+85°C; 11374595; NIFW; IP54/67
Class I, Zone 2, IIC/T6 Ta = -20°C to +40°C/+60°C/+85°C; 11374595; NIFW; IP54/67

WU-2

Class I Division 2, Groups A, B, C, D; T6 Ta = -20°C to +40°C/+60°C/+85°C; 11537885; NIFW; IP54/67
Class I, Zone 2, IIC/T6 Ta = -20°C to +40°C/+60°C/+85°C; 11537885; NIFW; IP54/67

12. Description of Equipment:

The WIKA Alexander Wiegand SE & Co KG WUC-1 and WU-2 Transducers are designed for pressure measurement of gases or liquids in ultra high purity applications. The transducers each have different process connection facilities and a display with push buttons and alarm contacts. The transducers can withstand a maximum pressure of up to 5000 psi.

Ratings - The WUC-1 and WU-2 Transducers operate at an ambient temperature of -20°C to +85°C.

WUC-1a-bc-def-gh-jkl-mn. Ultra High Purity Transducers.

NI/II/2/ABCD/T6 -20°C ≤ Ta ≤ +40°C; T5 -20°C ≤ Ta ≤ +60°C; T4 -20°C ≤ Ta ≤ +85°C; 11374595; NIFW; IP54/67
NI/II/2/IIC/T6 -20°C ≤ Ta ≤ +40°C; T5 -20°C ≤ Ta ≤ +60°C; T4 -20°C ≤ Ta ≤ +85°C; 11374595; NIFW; IP54/67

See Control Drawing For Nonincendive Field Wiring Parameters.

a = Process Connection Type: 0 (single end), 5 (flow through) or 6 (modular surface mount).
b = Output Signal (one alphabetic character).
c = Attenuation (one alphabetic character).
d = Pressure Unit (one alphabetic character).
e = Absolute or Relative Pressure (one alphabetic character).
f = Pressure Range (any three digit characters).
g = Process Connection (any two digit characters).
h = Process Connection Outlet (any two digit characters).
j = Electrical Connection (any two digit characters).
k = Cable Length (any one digit character).
l = Approvals (any two digit characters).
m = Factory Certificates (one digit character).
n = Other Text (not affecting safety, any letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation, etc.).

WU-2a-bc-def-gh-jkl-mn. Ultra High Purity Transducers.

NI/II/2/ABCD/T6 -20°C ≤ Ta ≤ +40°C; T5 -20°C ≤ Ta ≤ +60°C; T4 -20°C ≤ Ta ≤ +85°C; 11537885; NIFW; IP54/67
NI/II/2/IIC/T6 -20°C ≤ Ta ≤ +40°C; T5 -20°C ≤ Ta ≤ +60°C; T4 -20°C ≤ Ta ≤ +85°C; 11537885; NIFW; IP54/67

See Control Drawing For Nonincendive Field Wiring Parameters.

a = Process Connection Type: 0 (single end), 5 (flow through) or 6 (modular surface mount).
b = Output Signal (one alphabetic character).

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

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

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

SCHEDULE



US Certificate Of Conformity No: FM21US0019

c = Attenuation (one alphabetic character).
d = Pressure Unit (one alphabetic character).
e = Absolute or Relative Pressure (one alphabetic character).
f = Pressure Range (any three digit characters).
g = Process Connection (any two digit characters).
h = Process Connection Outlet (any two digit characters).
j = Electrical Connection (any two digit characters).
k = Cable Length (any one digit character).
l = Approvals (one digit character).
m = Factory Certificates (one digit character).
n = Other Text (not affecting safety, any letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation, etc.).

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
16 th January 2009	Original Issue.
23 rd February 2021	<u>Supplement 3:</u> Report Reference: – RR226714 dated: 23 rd February 2021. Description of the Change: Standard updates: FM3611:2004 to 2018, FM3810:2005 to 2018, FM3600:2011 to 2018.

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

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com