

CERTIFICATE OF CONFORMITY



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

2. Certificate No: **FM17US0003X**
3. Equipment:
(Type Reference and Name) **IS-3-* Series Pressure Transmitters**
4. Name of Listing Company: **WIKA ALEXANDER WIEGAND SE & Co KG**
5. Address of Listing Company: **Alexander-Wiegand-Straße, 63911 Klingenberg,
Germany**
6. The examination and test results are recorded in confidential report number:

3019542 dated 17th December 2004

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

FM 3600:2022, FM 3610:2021, FM 3611:2021, FM 3810:2021, ANSI/ISA 60079-0:2013,
ANSI/UL 60079-11:2014, ANSI/IEC 60529:2004, ANSI/UL 61010-1:2012

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:

Intrinsically Safe for Class I, II, III Division 1, Groups A, B, C, D, E, F, and G, per 14137236 T4, T5, T6 @ Ta*
Intrinsically Safe for Class I, Zone 0, AEx ia IIC, per 14137236 T4, T5, T6 @ Ta*
Nonincendive for Class I, II, III Division 2, Groups A, B, C, D, F, and G, Class I, Zone 2, Group IIC per 14137236
T4, T5, T6 @ Ta*
IP65

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

24 June 2024

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, One Technology Way, Norwood, MA 02062 USA

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

F 347 (Apr 21)



SCHEDULE

US Certificate Of Conformity No: FM17US0003X



T*	Maximum ambient temperature ranges (T _a)
Temperature Class	IS-3-* series
T4	-50 °C to + 105 °C
T5	-50 °C to + 75 °C
T6	-50 °C to + 60 °C

11. The marking of the equipment shall include:

IS CI I, II, III Div 1, Gp A, B, C, D, E, F, and G,
CI I, Zone 0, AEx ia IIC,
CI I, II, III Div 2, Gp A, B, C, D, F, G
IS / NIFW per 14137236
Temperature class of T4, T5, and T6. Tamb see manual
IP65

12. **Description of Equipment:**

General - The Pressure Transmitter type IS-3-* transfers measuring data into intrinsically safe supply and signal circuits. The IS-3-* is the succeeding series for the IS-20-*, IS-21-* series.

Construction - The Pressure Transmitter type IS-3 consists of a tubular stainless steel enclosure, which contains printed circuit boards fitted with electronic components embedded in casting compound. There are different connection options which use plugs, connectors or terminals, or flexible wiring with open leads coming from an interface filled with casting compound.

Ratings –

The maximum ambient temperature range of the IS-3-* Pressure Transmitters are as follows:

T*	Maximum ambient temperature ranges (T _a)
Temperature Class	IS-3-* series
T4	-50 °C to + 105 °C
T5	-50 °C to + 75 °C
T6	-50 °C to + 60 °C

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. One Technology Way, Norwood, MA 02062 USA

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

F 347 (Apr 21)



SCHEDULE

US Certificate Of Conformity No: FM17US0003X



Electrical:

Entity/Nonincendive Field Wiring Parameters:

$V_{\max}/U_i = 30\text{Vdc}$, $I_{\max}/I_i = 100\text{mA}$ at $T_a \leq 85^\circ\text{C}$, $I_{\max}/I_i = 87\text{mA}$ at $T_a > 85^\circ\text{C}$, $P_{\max}/P_i = 800\text{ mW}$, $C_i = 16.5\text{nF}$, $L_i = 0\mu\text{H}$

IS-3 - a - b c d e - f g h - i j k l m n o - p q r s t u v - w x y z Series Pressure Transmitters

Key	Description	Variations
a	Front Membrane	0 or 1
bc	Area of use	11, 13, 21, 23
d	Approvals	2, 3
e	Ignition protection	1
f	Additional certifications	any single digit character
g	SIL	any single digit character
h	Special features	any single digit character
i	Pressure Units	any single digit character representing standards engineering pressure unit (not to exceed 6,000 bar, 600 MPa or equivalent)
jk	Pressure Range	any two digit characters (representing pressure from full vacuum up to 6,000 bar, 600 MPa or equivalent)
lm	Process Connection	any two digit characters
n	Sealing	any single digit character
o	Special Design Features	any single digit character
p	Accuracy	any single digit character
q	Adjustability	Z, T
rs	Electrical Connections	O5, O6, B4, M2, M6, A3, AW, AV, DC, DP, XP, 5W, FC, FD, FH, FK, FL, FM, FS, FT
t	Cable material	Z, A, B
uv	Cable length	any two digit characters

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. One Technology Way, Norwood, MA 02062 USA

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

F 347 (Apr 21)



SCHEDULE

US Certificate Of Conformity No: FM17US0003X



w	Temperature Range of Media	U, E, C, 8, 9
x	Electrical output signal	any single digit character
y	Certificates	any single digit character
z	Additional order details	any single digit character

13. Specific Conditions of Use:

Potential Electrostatic Charging Hazard - Parts of the enclosure may be constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should be cleaned only with a damp cloth

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
17 December 2004	Original Issue.
19 July 2017	<u>Supplement 5:</u> Report Reference: – 3059644 dated 19 July 2017. Description of the Change: 1. Updating CDL with new drawings and deleting obsolete drawings. 2. Addition of alternate amplifier and pre-amplifier PCBs 3. addition of new Model IS-3-*.
13 May 2024	<u>Supplement 6:</u> Report Reference: RR241159 dated 13 May 2024. Description of the Change(s): Delist the IS 20 and IS 21 Series Pressure Transmitters
24 June 2024	<u>Supplement 7:</u> Report Reference: RR241786 dated 24 June 2024. Description of the Change(s): Removed the word type from Key line e and FA and FB on Key line rs on pg 3. Other minor adjustments to certificate layout per client request.

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. One Technology Way, Norwood, MA 02062 USA

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

F 347 (Apr 21)



SCHEDULE

US Certificate Of Conformity No: FM17US0003X



Member of the FM Global Group

Date	Description
	FM 3611 and FM 3810 updated to 2021 edition.

FM Approvals

FM Approvals

FM Approvals

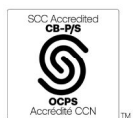
To verify the availability of the Approved product, please refer to www.approvalguide.com

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

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

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

F 347 (Apr 21)



Page 5 of 5