

CERTIFICATE OF CONFORMITY



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

2. Certificate No: FM25US0108X

3. Equipment:
(Type Reference and Name) CPT-2x and IPT-2x Pressure Sensor Transmitter

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:

PR472255 dated 13th April 2026

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 3610:2015, FM 3615:2022, FM 3810:2005, NEMA 250:2008, ANSI/UL 60079-0:2013, ANSI/ISA 60079-1:2013, ANSI/UL 60079-11:2011, ANSI/UL 60079-26:2011, ANSI/IEC 60529:2004, ANSI/UL 61010-1:2012, ANSI/ISA 122701:2011

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:

See Annex

11. The marking of the equipment shall include:

See Annex

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

04/13/2026

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

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F 347 (Jul 24)



SCHEDULE

US Certificate of Conformity No: FM25US0108X

12. Description of Equipment:

General – The CPT-2x and IPT-2x Series Pressure Transmitter is designed for industrial location applications. It is intended to be used as a universal pressure and level measuring transmitter in all liquids, gases, mist and vapours, suitable for absolute and relative pressure applications with process temperatures up to +400 °C and process pressures up to 100MPa (14,500psig). In compact version, remote version or electrical differential pressure version (two pressure sensor transmitters in series combination) it detects a process pressure or differential process pressure and converts it into an electrical output signal.

Construction – The CPT-2x and IPT-2x Series consist of one or two encapsulated electronics inserts assembled in a single or double-chambered housing. The housings are constructed out of Stainless Steel, or Aluminium. All versions of the enclosure provide two options for covers: one with a window for the Digital Display and the standard solid cover without a window. The standard enclosure contains a single cover on the top, while the double chamber enclosure contains a cover on the top for the electronics and an additional cover mounted on the front that covers the wiring compartment. The Digital Display internal display and adjustment module can be mounted on the top, as the standard enclosure, or on the front of the double chamber enclosure. All enclosures include either two ½ NPT or two M20 metric threaded entries that allow the equipment to be wired in accordance with applicable installation requirements.

Ratings – The equipment is certified to the following ratings:

The ambient operating temperature range is -50 °C to +70 °C in type of protection intrinsically safe apparatus with intrinsically safe process connections and optional intrinsically safe output circuit, and -50 °C to +60 °C in types of protection explosionproof-intrinsically safe/flameproof enclosure with intrinsically safe process connections, and explosionproof/flameproof enclosure, each when properly mounted and installed.

The process temperature range of the media is -90 °C to +400 °C, each depending on the process fitting, with a maximum working pressure range of -0.1 to 100 MPa (-14.5 to 14,500 psig) within a maximum measuring range of 250 m.

In Type of Protection Intrinsic Safety, the CPT-2x and IPT-2x Series operates off the following entity parameters:

Power Supply and Signal Circuit (Terminals 1, 2), single chamber enclosure version is:

V_{max} (U_i) = 30 VDC, I_{max} (I_i) = 131 mA, C_i ≈ 0, L_i = 5 µH, P_i = 983 mW

Power Supply and Signal Circuit (Terminals 1, 2), double chamber enclosure version is:

V_{max} (U_i) = 30 VDC, I_{max} (I_i) = 131 mA, C_i ≈ 0, L_i = 10 µH, P_i = 983 mW

In Type of Protection Explosionproof/Intrinsically Safe, the CPT-2x and IPT-2x Series operates off the following supply values:

V_{max} (U_i) = 9.6-35 VDC

Model Codes – See Annex for model codes

13. Specific Conditions of Use:

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F 347 (Jul 24)



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See Annex

14. Test and Assessment Procedure and Conditions:

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

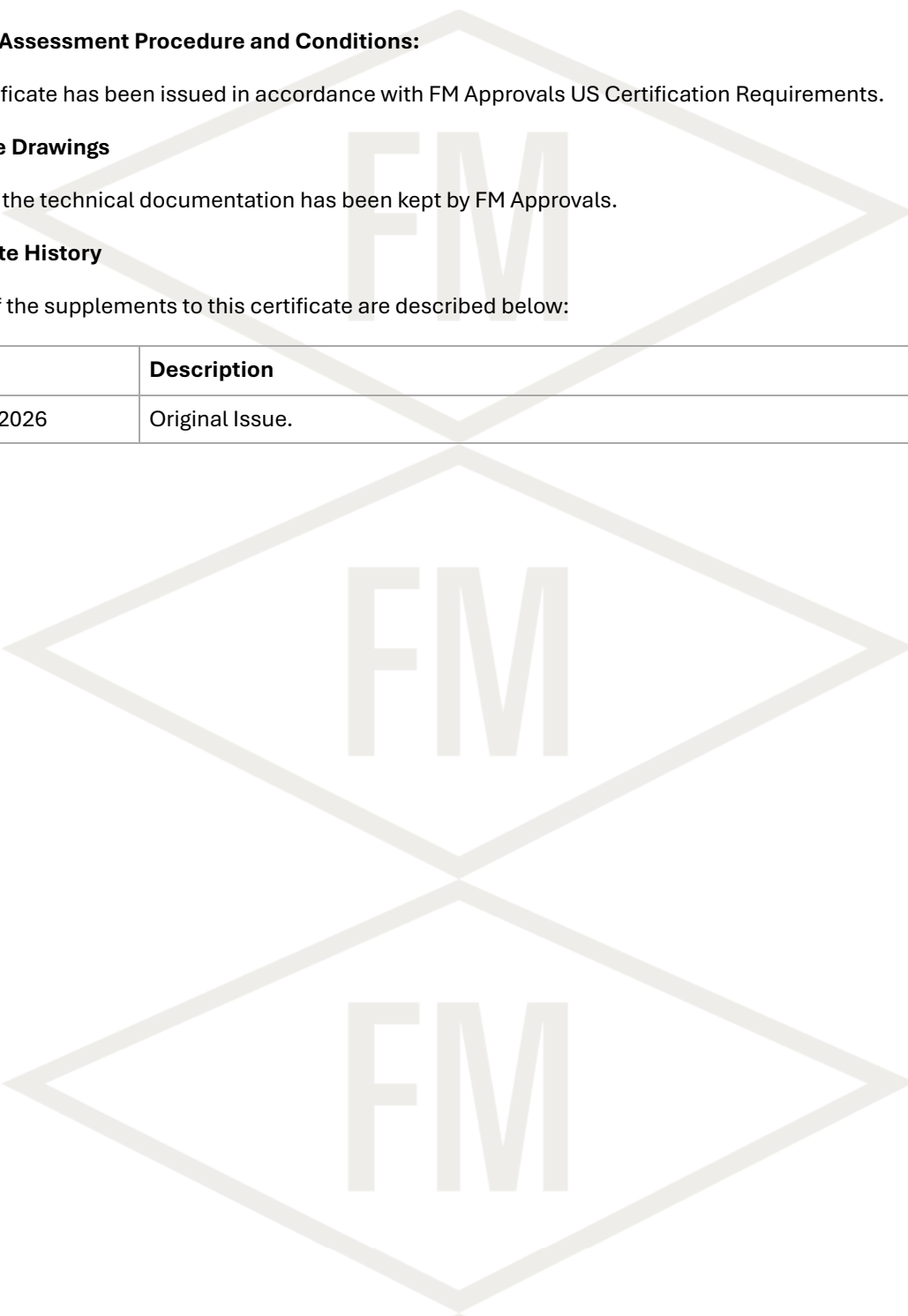
15. Schedule Drawings

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
13 April 2026	Original Issue.



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ANNEX

CPT-2x Pressure Sensor Transmitter

Equipment Ratings:

Explosionproof and Intrinsically Safe for Class I, Division 1, Groups A, B, C and D, T6...T1

Explosionproof and Intrinsically Safe for Class I, Zone 0/1 AEx ia/d IIC T6...T1 Ga/Gb

Explosionproof and Intrinsically Safe for Class I, Zone 1, AEx d ia IIC T6...T1 Gb

Ta = -50°C to +60°C

Type 4X, 6P; IP66/68

Markings:

XP-IS Class I, Division 1, Groups A, B, C and D, T6...T1

Class I, Zone 0/1 AEx ia/d IIC T6...T1 Ga/Gb

Class I, Zone 1, AEx d ia IIC T6...T1 Gb

Description of Equipment:

CPT – 2 6 – 8 9 10 -12 13 14 15 16 – 18 19 – 21 22 23 – 27 28 30 31 32 33 34 36 37 38 – 40 41 Pressure Sensor Transmitter

6 = Process connection type: 0, 1

8 = Electrical approval: F

9 = Ignition protection type: D

10 = Zone: B

12 = Housing material: A, V

13 = Case version: A, D, I, M, N, P, S

14 = Cable material and length: Z, A, G, B, H, C, I

15 = Digital Display: B, F, Z

16 = Additional electronics: Z

18 = Output signal: S, H, R, T, A

19 = Electrical connection: 9, D, 7, Q

21 = Unit: B, P

22 = Pressure type: BA, BG

23 = Measuring Range: Three digit variable designating the allowable measurement range of the pressure cell

27 = Process connection form: One digit alphanumeric variable for process connection form

28 = Process connection / wetted parts: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard

30 = Sealing Concept: D, F, S

31 = Process sealing ceramic measuring cell: A, B, C, D, E, F, G, J, K, N, O

32 = Second sealing: Z, A

33 = Wetted parts: C, P, S, I, T, K, E, G

34 = Accuracy: 1, H, 3

36 = Certification sterile processes: Z, F, E, 3, H, A

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37 = Clean specification: Z, E, A, S, B

38 = Filling of sensor: One digit alphanumeric variable for the medium with which the sensor is filled such as synthetic oil, and other fillings or without filling Z

40 = Certificates/Approvals: Z, 1, 3, 4, 2, A

41 = Additional ordering information: Free text. Options not affecting safety

*For 31 = A, B, C, D, E, F, G, J, K, N, O, reference Safety Instructions No. 61023 manual for maximum permissible ambient temperature and temperature class alignment tables up to T process = +150 °C

Specific Conditions of Use:

1. For Division 1 and Zone 1 Approvals, the process pressure sensors are suitable for process connections to Class I, Division 1, Groups A, B, C and D and Class I, Zone 0, Group IIC, hazardous (classified) locations.
2. The equipment is marked for Zone 0/1, and may only be mounted through or form part of the boundary wall to Class I, Zone 0 hazardous (classified) locations when the process pressure is within the range of 0.8...1.1 bar. For other locations, the maximum permissible working pressure is 1,000 bar (14,500 psig).
3. Potential Electrostatic Charging Hazard – To prevent the risk of electrostatic sparking, the non-metallic surface should only be cleaned with a damp cloth.
4. Enclosures containing aluminum constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
5. The pressure sensor transmitter shall be installed in such a way that contact between the measuring sensor and the tank wall will be excluded with sufficient safety, considering the tank installations and the flow conditions inside the tank.
6. The installer shall provide transient over-voltage protection external to the equipment such that the voltage at the supply terminal of the equipment does not exceed 140 % of the voltage rating of the equipment.
7. The maximum permitted ambient temperature of the pressure sensor transmitter is +60 °C. To avoid the effects of process temperatures and other thermal effects, care shall be taken to ensure the surrounding ambient temperature and the ambient temperature inside the equipment enclosure does not exceed +60 °C. Adherence to the manufacturer's installation manual must be followed for fulfillment of this requirement.
8. For information on flameproof joint dimensions and repair, contact the manufacturer using instructions given in product manual and safety instructions.

CPT-2x Pressure Sensor Transmitter

Equipment Ratings:

Intrinsically Safe for Class I, Division 1, Groups A, B, C and D, T6...T1 in accordance with Control Drawing 61024

Intrinsically Safe for Class I, Zone 0, AEx ia IIC T6...T1 Ga in accordance with Control Drawing 61024

Intrinsically Safe for Class I, Zone 0/1, AEx ia IIC T6...T1 Ga/Gb in accordance with Control Drawing 61024

Intrinsically Safe for Class I, Zone 1, AEx ia IIC T6...T1 Gb in accordance with Control Drawing 61024

Ta = -50°C to +70°C

Type 4X, 6P; IP66/68

Markings:

IS Class I, Division 1, Groups ABCD, T6...T1

Class I, Zone 0, AEx ia IIC T6...T1 Ga

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Class I, Zone 0/1, AEx ia IIC T6...T1 Ga/Gb

Class I, Zone 1, AEx ia IIC T6...T1 Gb

Ta = -50°C to +70°C

Type 4X, 6P; IP66/68

Description of Equipment:

CPT – 2 6 – 8 9 10 -12 13 14 15 16 – 18 19 – 21 22 23 – 27 28 30 31 32 33 34 36 37 38 – 40 41 Pressure Sensor Transmitter

Reference Control Drawing 61024 for Entity Parameter values

6 = Process connection type: 0, 1

8 = Electrical Approval: F

9 = Ignition protection type: I

10 = Zone: A

12 = Housing material: 8, A, D, V, W

13 = Case version: A, D, I, M, N, P, S

14 = Cable material and length: Z, A, G, B, H, C, I

15 = Digital Display: B, C, Z

16 = Additional electronics: Z

18 = Output signal: S, H, R, T, A

19 = Electrical connection: 9, 2, 6, 8, 4, M, D, F, G, H, I, J, K, L, R, 7, 1, P, Q, S, T, U, V, W, 0

21 = Unit: B, P

22 = Pressure Type: BA, BG

23 = Measuring Range: Three digit variable designating the allowable measurement range of the pressure cell

27 = Process connection form: One digit alphanumeric variable for process connection form

28 = Process connection / wetted parts: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard

30 = Sealing Concept: D, F, S

31 = Process sealing: A, B, C, D, E, F, G, J, K, N, O

32 = Second sealing: Z, A

33 = Wetted part: C, P, S, I, T, K, E, G

34 = Accuracy: 1, H, 3

36 = Certification sterile processes: Z, F, E, 3, H, A

37 = Clean specification: Z, E, A, S, B

38 = Filling of sensor: One digit alphanumeric variable for the medium with which the sensor is filled such as synthetic oil, and other fillings or without filling, Z

40 = Certificates/Approvals: Z, 1, 3, 4, 2, A

41 = Additional ordering information: Free text. Options not affecting safety

* For 31 = A, B, C, D, E, F, G, J, K, N, O, reference Safety Instructions No. 61024 manual for maximum permissible ambient temperature and temperature class alignment tables up to T process = +150 °C

Specific Conditions of Use:

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1. For Division 1, Zone 0, and Zone 1 Approvals, the process pressure sensors are suitable for process connections to Class I, Division 1, Groups A, B, C and D and Class I, Zone 0, Group IIC hazardous (classified) locations.
2. Dual Seal rating is available only for Housing option type "D" and type "W".
3. Maximum permissible working pressure is 1,000 bar (14,500 psig).
4. Potential Electrostatic Charging Hazard – To prevent the risk of electrostatic sparking, the non-metallic surface should only be cleaned with a damp cloth.
5. Enclosures containing aluminum constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
6. The pressure sensor transmitter shall be installed in such a way that contact between the measuring sensor and the tank wall will be excluded with sufficient safety, considering the tank installations and the flow conditions inside the tank.
7. The maximum permitted ambient temperature of the pressure sensor transmitter is +70 °C. To avoid the effects of process temperatures and other thermal effects, care shall be taken to ensure the surrounding ambient temperature and the ambient temperature inside the equipment enclosure does not exceed +70 °C. Adherence to the manufacturer's installation manual must be followed for fulfillment of this requirement.

IPT-2x Pressure Sensor Transmitter

Equipment Ratings:

Explosionproof and Intrinsically Safe for Class I, Division 1, Groups A, B, C and D, T6...T1

Explosionproof and Intrinsically Safe for Class I, Zone 0/1 AEx ia/d IIC T6...T1 Ga/Gb

Explosionproof and Intrinsically Safe for Class I, Zone 1, AEx d ia IIC T6...T1 Gb

Ta = -50°C to +60°C

Type 4X, 6P; IP66/68

Markings:

XP-IS Class I, Division 1, Groups A, B, C and D, T6...T1

Class I, Zone 0/1 AEx ia/d IIC T6...T1 Ga/Gb

Class I, Zone 1, AEx d ia IIC T6...T1 Gb

Description of Equipment:

IPT – 2 6 – 8 9 10 -12 13 14 15 16 – 18 19 – 21 22 23 – 27 28 30 31 Z 33 34 36 37 38 – 40 41 Pressure Sensor Transmitter

6 = Process connection type: 0, 1

8 = Electrical Approval: F

9 = Ignition protection type: D

10 = Zone: B

12 = Housing material: A, V

13 = Case version: A, V, D, I, M, N, P, S

14 = Cable material and length: Z, A, G, B, H, C, I

15 = Digital Display: B, F, Z

16 = Additional electronics: Z

18 = Output signal: S, H, R, T, A

19 = Electrical connection: 9, D, 7, Q

21 = Unit: B, P

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22 = Pressure: BA, BG

23 = Measuring Range: Three digit variable designating the allowable measurement range of the pressure cell

27 = Process connection form: One digit alphanumeric variable for process connection form

28 = Process connection / wetted parts: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.

30 = Sealing Concept: S

31 = Sealing: J, K, 5, A, C, E, F, H, O, P, Q, Y, T

32 = Second sealing: Z

33 = Wetted parts: One digit alphanumeric variable for material of the wetted parts

34 = Accuracy M, 1, 3

36 = Certification sterile processes: Z, F, E, 3, H, A

37 = Clean specification: Z, E, A, S, B

38 = Filling of sensor: Z, S, N, E, L

40 = Certificates/Approvals: Z, 1, 3, 4, 2, A

41 = Additional ordering information: Free text. Options not affecting safety

* For 31 = J, K, 5, A, C, E, F, H, O, P, Q, Y, T, reference Safety Instructions No. 61023 manual for maximum permissible ambient temperature and temperature class alignment tables up to T process = +200 °C

Specific Conditions of Use:

1. For Division 1 and Zone 1 Approvals, the process pressure sensors are suitable for process connections to Class I, Division 1, Groups A, B, C and D and Class I, Zone 0, Group IIC, hazardous (classified) locations.
2. The equipment is marked for Zone 0/1, and may only be mounted through or form part of the boundary wall to Class I, Zone 0 hazardous (classified) locations when the process pressure is within the range of 0.8...1.1 bar. For other locations, the maximum permissible working pressure is 1,000 bar (14,500 psig).
3. Potential Electrostatic Charging Hazard – To prevent the risk of electrostatic sparking, the non-metallic surface should only be cleaned with a damp cloth.
4. Enclosures containing aluminum constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
5. The pressure sensor transmitter shall be installed in such a way that contact between the measuring sensor and the tank wall will be excluded with sufficient safety, considering the tank installations and the flow conditions inside the tank.
6. The installer shall provide transient over-voltage protection external to the equipment such that the voltage at the supply terminal of the equipment does not exceed 140 % of the voltage rating of the equipment.
7. The maximum permitted ambient temperature of the pressure sensor transmitter is +60 °C. To avoid the effects of process temperatures and other thermal effects, care shall be taken to ensure the surrounding ambient temperature and the ambient temperature inside the equipment enclosure does not exceed +60 °C. Adherence to the manufacturer's installation manual must be followed for fulfillment of this requirement.
8. For information on flameproof joint dimensions and repair, contact the manufacturer using instructions given in product manual and safety instructions.

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IPT-2x Pressure Sensor Transmitter

Equipment Ratings:

Intrinsically Safe for Class I, Division 1, Groups A, B, C and D, T6...T1 in accordance with Control Drawing 61024

Intrinsically Safe for Class I, Zone 0, AEx ia IIC T6...T1 Ga in accordance with Control Drawing 61024

Intrinsically Safe for Class I, Zone 0/1, AEx ia IIC T6...T1 Ga/Gb in accordance with Control Drawing 61024

Intrinsically Safe for Class I, Zone 1, AEx ia IIC T6...T1 Gb in accordance with Control Drawing 61024

Ta = -50°C to +70°C

Type 4X, 6P; IP66/68

Markings:

IS Class I, Division 1, Groups ABCD, T6...T1

Class I, Zone 0, AEx ia IIC T6...T1 Ga

Class I, Zone 0/1, AEx ia IIC T6...T1 Ga/Gb

Class I, Zone 1, AEx ia IIC T6...T1 Gb

Ta = -50°C to +70°C

Type 4X, 6P; IP66/68

Description of Equipment:

IPT – 2 6 – 8 9 10 -12 13 14 15 16 – 18 19 – 21 22 23 – 27 28 30 31 33 34 36 37 38 – 40 41 Pressure Sensor Transmitter

Reference Control Drawing 61024 for Entity Parameter values

6 = Process connection type: 0, 1

8 = Electrical Approval: F

9 = Ignition protection type: I

10 = Zone: A

12 = Housing material: 8, A, D, V, W

13 = Case version: A, D, I, M, N, P, S

14 = Cable material and length: Z, A, G, B, H, C, I

15 = Digital Display: B, C, Z

16 = Additional electronics: Z

18 = Output signal: S, H, R, T, A

19 = Electrical connection: 9, 2, 6, 8, 4, M, D, F, G, H, I, J, K, L, R, 7, 1, P, Q, S, T, U, V, W, 0

21 = Unit: B, P

22 = Pressure: BA, BG

23 = Measuring Range: Three digit variable designating the allowable measurement range of the pressure cell

27 = Process connection form: One digit alphanumeric variable for process connection form

28 = Process connection / wetted parts: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard

30 = Sealing Concept: S

31 = Sealing: J, K, 5, A, C, E, F, H, O, P, Q, Y, T

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32 = Second sealing: Z, A
33 = Wetted parts: One digit alphanumeric variable for material of the wetted parts
34 = Accuracy: M, 1, 3
36 = Certification sterile processes: Z, F, E, 3, H, A
37 = Clean specification: Z, E, A, S, B
38 = Filling of sensor: Z, S, N, E, L
40 = Certificates/Approvals: Z, 1, 3, 4, 2, A
41 = Additional ordering information: Free text. Options not affecting safety

*For 31 = J, K, 5, A, C, E, F, H, O, P, Q, Y, T reference Safety Instructions No. 61024 manual for maximum permissible ambient temperature and temperature class alignment tables up to T process = +200 °C

Specific Conditions of Use:

1. For Division 1, Zone 0, and Zone 1 Approvals, the process pressure sensors are suitable for process connections to Class I, Division 1, Groups A, B, C and D and Class I, Zone 0, Group IIC hazardous (classified) locations.
2. Dual Seal rating is available only for Housing option type "D" and type "W".
3. Maximum permissible working pressure is 1,000 bar (14,500 psig).
4. Potential Electrostatic Charging Hazard – To prevent the risk of electrostatic sparking, the non-metallic surface should only be cleaned with a damp cloth.
5. Enclosures containing aluminum constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
6. The pressure sensor transmitter shall be installed in such a way that contact between the measuring sensor and the tank wall will be excluded with sufficient safety, considering the tank installations and the flow conditions inside the tank.
7. The maximum permitted ambient temperature of the pressure sensor transmitter is +70 °C. To avoid the effects of process temperatures and other thermal effects, care shall be taken to ensure the surrounding ambient temperature and the ambient temperature inside the equipment enclosure does not exceed +70 °C. Adherence to the manufacturer's installation manual must be followed for fulfillment of this requirement.

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