



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

| | | | |
|---------------------|--|-------------|--------------------------------------|
| Certificate No.: | IECEx SEV 11.0003X | Page 1 of 6 | <u>Certificate history:</u> |
| Status: | Current | Issue No: 4 | Issue 3 (2020-12-03) |
| Date of Issue: | 2024-08-07 | | Issue 2 (2017-05-16) |
| | | | Issue 1 (2014-02-20) |
| | | | Issue 0 (2012-11-06) |
| Applicant: | Trafag AG, Sensors and Contols Industriestrasse 11 8608 Bubikon Switzerland | | |
| Equipment: | Pressure Transmitter, Types: 8292.XX.XXXX.XX.XX.XX... | | |
| Optional accessory: | | | |
| Type of Protection: | i | | |
| Marking: | Ex ia IIC T4/T6 Ga | | |
| | Ex ia IIC T4/T6 Ga/Gb (version with plastic connector) | | |
| | Ex ia IIIC T ₂₀₀ 160 °C Da | | |
| | Ex ia I Ma | | |

Approved for issue on behalf of the IECEx
Certification Body:

Urban Strebel

Position:

Manager Product Certification

Signature:
(for printed version)

Date:
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins Electric & Electronic Product Testing AG
Luppenstrasse 3
8320 FEHRALTORF .
Switzerland



E&E



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Manufacturer: **Trafag AG, Sensors and Controls**
Industriestrasse 11
8608 Bubikon
Switzerland

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-26:2021](#) Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection
Edition:4.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CH/SEV/ExTR11.0003/04](#)

Quality Assessment Report:

[CH/SEV/QAR12.0008/07](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

8292.XX.XXXX.XX.XX.XX...

Description

Pressure transmitter for the measurement of various kinds of pressures such as, air pressure, Oil pressure, etc. The physical print size is converted into an electrical quantity ("Current Loop"; 4 ... 20 mA).

SPECIFIC CONDITIONS OF USE: YES as shown below:

The intrinsically safe circuit has to be limited to overvoltage category I, as defined in IEC 60664-1 respectively the supply of the circuit's comes entirely from an intrinsically safe power source with a level of protection "ia".



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Equipment (continued):

Ratings: $U_i = 30\text{ V}$; $I_i = 100\text{ mA}$; $P_i = 1\text{ W}$; $C_i = 23\text{ nF}$; $L_i = 0\text{ mH}$

Classification of installation and use: fixed

Ingress protection: IP6X

Rated ambient temperature range ($^{\circ}\text{C}$):

Types 8292.XX.XXXX.02, 05, 35, 78 and 79:

-40 $^{\circ}\text{C}$...+65 $^{\circ}\text{C}$ for T6 {EPL Ga}

-40 $^{\circ}\text{C}$...+120 $^{\circ}\text{C}$ for T4 {EPL Ga}

Type 8292.XX.XXXX.14:

-30 $^{\circ}\text{C}$...+65 $^{\circ}\text{C}$ for T6 {EPL Ga}

-30 $^{\circ}\text{C}$...+95 $^{\circ}\text{C}$ for T4 {EPL Ga}

Type 8292.XX.XXXX.80:

-40 $^{\circ}\text{C}$...+65 $^{\circ}\text{C}$ for T6 {EPL Ga}

-40 $^{\circ}\text{C}$...+80 $^{\circ}\text{C}$ for T4 {EPL Ga}

Type 8292.XX:

-20 $^{\circ}\text{C}$...+120 $^{\circ}\text{C}$ for T₂₀₀160 $^{\circ}\text{C}$ {EPL Da}



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Adaptation to higher nominal pressure, from originally 2000 bar to now 2500 bar.
- Introduction of new cable option 79: Cable HEW, 3x0.75mm², -40...120 °C, shielded, E00180.
- Removal of type EXL 8432 immersion transmitter (no longer in production).
- Update from standard IEC 60079-26 Edition 3.0 to IEC 60079-26 Edition 4.0.
- New revision of documents, manuals and datasheets are added
- Drawing and datasheet of cable HEW, 3x0.75mm², -40...120 °C, shielded, E00180, are added.
- IECEx TR reports 20CH-01084.X05 replace previous reports, except measurement reports remain unchanged.
- Rated ambient temperature for type with new cable option 79 is defined as follows:

Types 8292.XX.XXXX.02, 05, 35, 78 and 79:

-40 °C...+65 °C for T6 {EPL Ga}

-40 °C...+120 °C for T4 {EPL Ga}



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Additional information:

See annexe

Annex:

[IECEx SEV 11.0003X app i4.pdf](#)

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Applicant Name: Trafag AG, Sensors and Controls
Industriestrasse 11, CH-8606 Bubikon, SWITZERLAND

Electrical Apparatus: Pressure Transmitter

Pressure transmitter for the measurement of various kinds of pressures such as, air pressure, Oil pressure, etc. The physical print size is converted into an electrical quantity ("Current Loop"; 4 ... 20 mA).

Ex Protection

Ex ia IIC T4/T6 Ga
Ex ia IIC T4/T6 Ga/Gb (version with plastic connector)
Ex ia IIIC T₂₀₀160 °C Da
Ex ia I Ma

Ratings: $U_i = 30 \text{ V}$; $I_i = 100 \text{ mA}$; $P_i = 1 \text{ W}$; $C_i = 23 \text{ nF}$; $L_i = 0 \text{ mH}$
Classification of installation and use: fixed
Ingress protection: IP6X

Rated ambient temperature range (°C):

Types 8292.XX.XXXX.02, 05, 35, 78 and 79:

-40 °C...+65 °C for T6 {EPL Ga}
-40 °C...+120 °C for T4 {EPL Ga}

Type 8292.XX.XXXX.14:

-30 °C...+65 °C for T6 {EPL Ga}
-30 °C...+95 °C for T4 {EPL Ga}

Type 8292.XX.XXXX.80:

-40 °C...+65 °C for T6 {EPL Ga}
-40 °C...+80 °C for T4 {EPL Ga}

Type 8292.XX:

-20 °C...+120 °C for T₂₀₀160 °C {EPL Da}

Eurofins Electric & Electronic Product Testing AG
Swiss Certification Body

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Type Designation:
Type 8292

| | | | | 8292 . XX XX XX XX XX | | | | | |
|-------------------------------|--|-------------------------------------|----------------------|-----------------------|----------------------------------|---------------------|----------------------|----|----|
| Measuring range ¹⁾ | Pressure measurement range [bar] | Over pressure [bar] | Burst pressure [bar] | | Pressure measurement range [psi] | Over pressure [psi] | Burst pressure [psi] | | |
| | | | | | | | | | |
| | 0 ... 0.4 | 1.2 | 25 | 69 | 0 ... 5 | 18 | 350 | F9 | |
| | 0 ... 0.6 | 1.5 | 25 | 70 | 0 ... 10 | 25 | 350 | G0 | |
| | 0 ... 1.0 | 2.0 | 25 | 71 | 0 ... 15 | 30 | 350 | G1 | |
| | 0 ... 1.6 | 3.5 | 80 | 73 | 0 ... 25 | 50 | 1200 | G3 | |
| | 0 ... 2.5 | 5 | 100 | 75 | 0 ... 30 | 30 | 720 | G5 | |
| | 0 ... 4 | 8 | 100 | 76 | 0 ... 50 | 120 | 860 | G6 | |
| | 0 ... 6 | 12 | 100 | 77 | 0 ... 100 | 170 | 1450 | G7 | |
| | 0 ... 10 | 20 | 200 | 78 | 0 ... 150 | 290 | 2900 | G8 | |
| | 0 ... 16 | 32 | 200 | 79 | 0 ... 250 | 460 | 2900 | G9 | |
| | 0 ... 25 | 50 | 300 | 80 | 0 ... 400 | 730 | 4350 | H0 | |
| | 0 ... 40 | 80 | 300 | 81 | 0 ... 500 | 1160 | 4350 | H1 | |
| | 0 ... 60 | 120 | 500 | 82 | 0 ... 1000 | 1740 | 5800 | H2 | |
| | 0 ... 100 | 200 | 500 | 83 | 0 ... 1500 | 2900 | 7250 | H3 | |
| | 0 ... 160 | 320 | 1000 | 85 | 0 ... 2000 | 4640 | 10850 | H5 | |
| | 0 ... 250 | 500 | 1000 | 74 | 0 ... 3000 | 7250 | 14500 | G4 | |
| | 0 ... 400 | 800 | 1500 | 84 | 0 ... 5000 | 11600 | 21750 | H4 | |
| | 0 ... 600 | 1000 | 2000 | 86 | 0 ... 7500 | 14500 | 29000 | H6 | |
| | 0 ... 1000 ⁹⁾ | 1600 | 3000 | 88 | 0 ... 15000 ⁹⁾ | 25000 | 45000 | H8 | |
| | 0 ... 1600 | 3000 | 4000 | 89 | 0 ... 25000 | 45000 | 60000 | H9 | |
| | 0 ... 2000 | 3000 | 4000 | 90 | 0 ... 30000 | 45000 | 60000 | J0 | |
| | 0 ... 2500 ⁷⁾ | 3000 | 4000 | 91 | | | | | |
| Sensor | Relative pressure, accuracy: 0.3% (> 1 bar) | | | | | | | 23 | |
| | Relative pressure, accuracy: 0.5% (> 1 bar) | | | | | | | 25 | |
| | Relative pressure, accuracy: 0.5% (≤ 1 bar) | | | | | | | 26 | |
| | Relative pressure, accuracy: 0.5 %, wetted parts hydrogen compatible ^{7) 8)} | | | | | | | 35 | |
| | Relative pressure, accuracy: 0.3 %, wetted parts hydrogen compatible ^{7) 8)} | | | | | | | 33 | |
| Pressure connection | G1/4" male ²⁾ | | | | | | | 17 | |
| | G1/4" male (Manometer) EN 837 ^{2) 8)} | | | | | | | 53 | |
| | G1/4" female ^{2) 8)} | | | | | | | 10 | |
| | G1/2" male ^{2) 8)} | | | | | | | 21 | |
| | G1/2" male (Manometer) EN 837 ^{2) 8)} | | | | | | | 11 | |
| | R1/4" male ^{2) 8)} | | | | | | | 19 | |
| | 1/4" NPT male ^{2) 8)} | | | | | | | 30 | |
| | M18x1.5 male (conical seal: 58°) ^{4) 8)} | | | | | | | 29 | |
| Electrical connection | Male electrical connector EN 175301-803-A, plastic | | | | | | | 05 | |
| | Male electrical connector M12x1, 5-pole, metal | | | | | | | 35 | |
| | Male electrical connector MIL-C 26482, 6-pole, metal ⁵⁾ | | | | | | | 02 | |
| | Male electrical connector Binder 723, 5-pole, metal | | | | | | | 14 | |
| | Cable with shield, material FDR 25 (Raychem), 4 x 0.5mm ² (cable length see "Accessories") - not ship approved ¹⁰⁾ | | | | | | | 78 | |
| | Cable with shield, jacket material XVH (HEW), 3 x 0.75 mm ² (cable length see "Accessories") - not ship approved | | | | | | | 79 | |
| | Cable intrinsically safe with shield, material PVC, 2 x 0.75mm ² (-40...+80°C), (cable length see "Accessories") - not ship approved ¹⁰⁾ | | | | | | | 80 | |
| Output signal | Signal output | Load resistance | I (supply) | U (supply) | | | | | |
| | 4 ... 20 mA | (U _{supply} -10 V) / 20 mA | | 10 ... 30 VDC | | | | | 19 |

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| | 8292 . | XX | XX | XX | XX | XX | XX |
|---|--------|----|----|----|----|----|----|
| Accessories | | | | | | | |
| Female electrical plug EN 175301-803-A (DIN43650-A)/NBR, -40°C ... +90°C, for cable diameter 4 ... 9 mm, flammability standard UL94-V0 | | | | | | | 46 |
| Female electrical plug EN 175301-803-A (DIN 43650-A)/silicone, -40°C ... +125°C, for cable diameter 4 ... 9 mm, flammability standard UL94-V0 | | | | | | | 56 |
| Female electrical plug EN 175301-803-A (DIN43650-A)/NBR, -40°C ... +90°C, for cable diameter 4 ... 9.5 mm, flammability standard UL94-V2 ¹¹⁾ | | | | | | | 58 |
| Female electrical plug M12x1, 5-pole, plastic (not for zones 0 (gas)) | | | | | | | 33 |
| Female electrical plug M12x1, 5-pole, metal | | | | | | | 35 |
| Female electrical plug MIL-C 26482, 6-pole, metal | | | | | | | 32 |
| Female electrical plug Binder 723, 5-pole, metal | | | | | | | 37 |
| Seal FKM, -18°C ... +125°C ¹²⁾ | | | | | | | 61 |
| Seal EPDM, -40°C ... +125°C ¹³⁾ | | | | | | | 63 |
| Pressure peak damping element ø 0.4 mm | | | | | | | 44 |
| Pressure peak damping element ø 1.0 mm | | | | | | | 40 |
| Cable length 1.5 m ⁴⁾ | | | | | | | 1M |
| Cable length 3.0 m ⁴⁾ | | | | | | | 3M |
| Cable length 5.0 m ⁴⁾ | | | | | | | 5M |
| Special electrical connection: Pin 1 +, Pin 2 - (only for output signal 4 ... 20 mA and male electrical connector EN175301-803-A / DIN43650-A) | | | | | | | 92 |
| Type label e1 (EC79) ¹²⁾ | | | | | | | HC |
| Zener barrier ATEX/IECEX 28V/93mA; R ≈ 300Ω; Ordering no ZEN28VDC | | | | | | | |
| Damping elements and snubber see data sheet H72258 | | | | | | | |

¹¹⁾ Extended overpressure as well as customized pressure ranges upon request

²⁾ Without ship approvals

³⁾ For pressure ranges ≤ 600 bar

⁴⁾ For pressure ranges > 600 bar

⁵⁾ For pressure ranges < 40 bar upon request

⁶⁾ Other cable lengths upon request

⁷⁾ Pressure ranges 0 ... 1 to 0 ... 1000 bar, max. ambient and media temperature +85°C

⁸⁾ Upon request

⁹⁾ With sensors 33 and 35: Overpressure 1300 bar/19000 psi, Burst pressure 2600 bar/38000 psi

¹⁰⁾ Cable length max. 20 m

¹¹⁾ Without ship approval DNV

¹²⁾ Only for process connections 17 (max. 350 bar) and 30

¹³⁾ Only for pressure connections 17 and 21