

(2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**

(3) Certificate number: **SEV 11 ATEX 0201 X**

(4) Product: Pressure Transmitter 8292.XX.XXXX.XX.XX.XX...

(5) Manufacturer: Trafag AG, Sensors and Controls

(6) Address: Industriestrasse 11, 8606 Bubikon, Switzerland

(7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no 20CH-01084.X05

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018
EN 60079-11:2012
EN 60079-26:2015

Except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign “U” is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



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

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Urban Strebel
Product Certification

V. Stesuf



(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 11 ATEX 0201 X

(15) **Description of product**

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

Ratings:	Ui = 30 V; li = 100 mA; Pi = 1 W; Ci = 23 nF; Li = 0 mH
Classification of installation and use:	fixed
Ingress protection:	IP6X
Rated ambient temperature range (°C) for Ex Components	N/A

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}



Type Designation

Type 8292

				8292 .			XX	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 ²⁾	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 ³⁾							17				
	G1/4" male (Manometer) EN 837 ^{3) 8)}							53				
	G1/4" female ^{3) 8)}							10				
	G1/2" male ^{3) 8)}							21				
	G1/2" male (Manometer) EN 837 ^{3) 8)}							11				
	R1/4" male ^{3) 8)}							19				
	1/4" NPT male ^{3) 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				

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 ¹²⁾	63
Pressure peak damping element ø 0.4 mm	44
Pressure peak damping element ø 1.0 mm	40
Cable length 1.5 m ⁶⁾	1M
Cable length 3.0 m ⁶⁾	3M
Cable length 5.0 m ⁶⁾	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	

¹¹Extended overpressure as well as customized pressure ranges upon request

²¹ Without ship approvals³⁾ For pressure ranges ≤ 600 bar

⁴⁾ For pressure ranges > 600 bar

⁵¹ For pressure ranges < 40 bar upon request.

⁶¹ Other cable lengths upon request.

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

^{E1} Upon request

^(b) 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

(16) **Report number** 20CH-01084.X05

(17) **Specific conditions of use**

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".

(18) Essential health and safety requirements

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(19) Drawings and Documents

See test report "Manufacturer's Documents"