



国家防爆

Electrical Apparatus for Explosive Atmospheres

CERTIFICATE OF CONFORMITY

Cert. No.: CNEx19.1258X

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

Name of Product Pressure Transmitter

Type of Product 8292

Marking Ex ia IIC T4/T6 Ga
Ex ia IIC T4/T6 Ga/Gb (version with plastic connector)

Standard _____

Drawing No. P-100289

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB 3836.1-2010 Explosive atmospheres - Part 1: Equipment - General requirements
GB 3836.4-2010 Explosive atmospheres - Part 4: Equipment protection by intrinsic safety "i"

Note See Annex(4 pages)

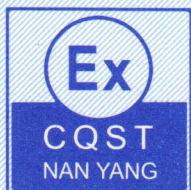
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Valid Date From March 15, 2019 to March 14, 2024

Issue Date March 15, 2019

Director

王军



CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE
FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS

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1. This product has been certified, under certificate number IECEx SEV 11.0003X, Issue 2, dated 2017-05-16.

2. Description

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

3. specific conditions of use

The intrinsically safe circuit has to be limited to overvoltage category I, as defined in GB/T 16935.1 respectively the supply of the circuit's comes entirely from an intrinsically safe power source with a level of protection "ia".

4. **Ratings:** $U_i=30.0V$, $I_i=100mA$, $P_i=1.0W$, $C_i=23nF$, $L_i=0mH$

5. **Classification of installation and use:** stationary

6. **Ingress protection:** IP6X (IP65)

7. **Rated ambient temperature range**

Types 8292.XX.XXXX.02, 05, 35 and 78: $-40^{\circ}C \cdots +65^{\circ}C$ for T6 {EPL Ga}

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

Type 8292.XX.XXXX.14: $-30^{\circ}C \cdots +65^{\circ}C$ for T6 {EPL Ga}

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

Type 8292.XX.XXXX.80: $-40^{\circ}C \cdots +65^{\circ}C$ for T6 {EPL Ga}

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

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8. Type reference:

8292.	XX	XX	XX	XX	XX	XX
	①	②	③	④	⑤	⑥

① Measuring range⁽¹⁾

	Pressure measurement range (bar)	Over pressure (bar)	Burst pressure (bar)		Pressure measurement range (bar)	Over pressure (bar)	Burst pressure (bar)
69	0 ... 0.4 ⁽²⁾	1.2	25	81	0 ... 40	80	300
70	0 ... 0.6 ⁽²⁾	1.5	25	82	0 ... 60	120	500
71	0 ... 1.0 ⁽²⁾	2.0	25	83	0 ... 100	200	500
73	0 ... 1.6	3.5	80	85	0 ... 160	320	1000
75	0 ... 2.5	5	100	74	0 ... 250	500	1000
76	0 ... 4	8	100	84	0 ... 400	800	1500
77	0 ... 6	12	100	86	0 ... 600	1000	2000
78	0 ... 10	20	200	88	0 ... 1000	1600	3000
79	0 ... 16	32	200	89	0 ... 1600	3000	4000
80	0 ... 25	50	300	90	0 ... 2000	3000	4000

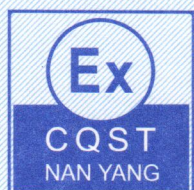
② Sensor

23	Relative pressure, accuracy: 0.3%(> 1 bar)
25	Relative pressure, accuracy: 0.5%(> 1 bar)
26	Relative pressure, accuracy: 0.5%(> 1 bar)
35	Relative pressure, accuracy: 0.5%, wetted parts hydrogen compatible ⁽⁷⁾
33	Relative pressure, accuracy: 0.3%, wetted parts hydrogen compatible ⁽⁷⁾

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③ Pressure connection

17	G1/4" male ⁽³⁾
10	G1/4" female ⁽³⁾
21	G1/2" male ⁽³⁾
11	G1/2 male DIN 16288-8 (Manometer) ⁽³⁾
19	R1/4" male ⁽³⁾
30	1/4" NPT male ⁽³⁾
29	M18×1.5 male (conical seal: 58°) ⁽⁴⁾

④ Electrical connection

05	Male electrical plug EN 175301-803-A, plastic, only zones 1, 2 (gas)
35	Male electrical plug M12×1, 5-pole, metal
02	Male electrical plug MIL-C 26482, 6-pole, metal ⁽⁵⁾
14	Male electrical plug Binder 723, 5-pole, metal
78	Cable with shield, material FDR 25 (Raychem), 4×0.5mm ² (cable length see "Accessories") - not ship approved
80	Cable intrinsically safe with shield, material PVC, 2×0.75mm ² (-40 ... 80°C), (cable length see "Accessories") - not ship approved

⑤ Output signal

	Signal output	Load resistance	I (Supply)	U (Supply)
19	4 ... 20mA	(Usupply-10V)/20mA	—	10 ... 30VDC

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⑥ Accessories

58	Female electrical connector EN 175301-803-A (DIN 43650-A), plastic, only zone 1, 2 (gas)
33	Female electrical plug M12×1, 5-pole, plastic, only zone 1, 2 (gas)
35	Female electrical plug M12×1, 5-pole, metal
32	Female electrical connector MIL-C 26482, 6-pole, metal
37	Female electrical connector Binder 723, 5-pole, metal
44	Pressure peak damping element ϕ 0.4mm
40	Pressure peak damping element ϕ 1.0mm
1M	Cable length 1.5m ⁽⁶⁾
3M	Cable length 3.0m ⁽⁶⁾
5M	Cable length 5.0m ⁽⁶⁾
92	Female electrical connection: Pin 1 +, Pin 2- (only for output signal 4 ... 20mA and male electrical plug EN 175301-803-A/DIN 43650-A)
	Zener barrier 28V/93mA, R \approx 300 Ω : Ordering no ZEN28VDC
	Damping elements and snubber see data sheet H72258

(1) Extended overpressure as well as customized pressure ranges upon request

(2) Only with sensor 26 (0.5%)

(3) For pressure ranges \leq 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 ... 40 to 0 ... 1000 bar

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