



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312315000456

Applicant CORREGE
Address RN 13 Chaignes, 27120 PACY SUR EURE, France
Manufacturer CORREGE
Address RN 13 Chaignes, 27120 PACY SUR EURE, France
Production Factory CORREGE
Production Address RN 13 Chaignes, 27120 PACY SUR EURE, France
Product Temperature sensor
Model/Type CSI* * * * * , CTI* * * * * , PS* * * , PT* * *
Ex marking Ex ec IIC T6~T3 Gc, Ex tc IIIC T85°C/T100°C/T135°C/T200°C Dc
Reference Standards GB/T3836.1-2021, GB/T3836.3-2021, GB/T3836.31-2021

Certification mode Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEC-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (6 pages)

Initial issue date: 2021-07-05

Issued date: 2023-06-01

Valid to: 2026-07-04

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical Apparatus Research Institute Co.,Ltd.



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Product information:

1. This certificate covers the following models:

- CSI***** , CTI***** , PS*** , PT***

Definition of the model CSI***** , CTI***** :

CSI/CTI	*	*	**	**	*
	1)	2)	3)	4)	5)

1) number of element: 1 to 3

- 1: single element
- 2: double element
- 3: triple element

2) element type: J/K/P

- J/K: Thermocouple
- P: Resistive element

3) type of head: 01 to 19

- 01: DAN
- 02: DANW
- 03: NA
- 04: DA
- 05: DAD
- 06: DAWD
- 07: B
- 08: A
- 09: AD
- 10: ---
- 11: DNAG
- 12: GUA and S
- 13: Exe DANA
- 14: Exe DANAW
- 15: KNE
- 16: KH

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- 17: XD
- 18: XE-DANAW did
- 19: TTE100
- 4) type of terminal block or transmitter: 01 to 18
 - 01: terminal block BLS2
 - 02: terminal block BLS3
 - 03: terminal block BLS4
 - 04: terminal block BLS6
 - 05: transmitter XT 42-SI
 - 06: transmitter IPAQ-HX
 - 07: transmitter Sitrans TK
 - 08: transmitter Sitrans TK-H
 - 09: transmitter Sitrans TK-L
 - 10: transmitter Sitrans T3K-PA
 - 11: transmitter 5335 HART
 - 12: transmitter Flex Top 2231
 - 13: transmitter Flex Top 2201
 - 14: transmitter Flex Top HRT
 - 15: transmitter Flex Top ISO
 - 16: transmitter 644H
 - 17: other
 - 18: head indicator
- 5) mounting type: A to C
 - A: drawing 97040
 - B: drawing 97054
 - C: drawing 03004

Definition of the model PS***, PT***:

PS /PT	*	*	*
	1)	2)	3)

- 1) number of element: 1 to 3
 - 1: single element
 - 2: double element

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- 3: triple element
- 2) element type: J/K/P
J/K: Thermocouple
P: Resistive element
- 3) mounting type: A to D
A: drawing Ex 031814
B: drawing Ex 031815
C: drawing Ex 031832
D: drawing Ex 031833

RATINGS:

Resistance probe : R = 100Ω or 500Ω or 1000Ω (at 0°C)

Thermocouple probe : C ≈ 0 , L ≈ 0

PT*** and PS*** : U : 28 V, I : 120 mA, P : 650 mW

CSI***** and CTI***** :

With single terminal block : U : 28 V, I : 120 mA, P : 650 mW

With certified 4-20mA transmitter or indicator, depending on the parameters of the transmitter or indicator used.

Ex MARKING:

(1) Type : CSI***** or CTI*****

①With single terminal block :

Ex ec IIC T6~T3 Gc, Ex tc IIIC T85°C/T100°C/T135°C/T200°C Dc

②With certified 4-20mA transmitter or indicator :

Ex ec IIC T6~T4 Gc , Ex tc IIIC T85°C/T100°C/T135°C Dc

(2) Type : PS*** or PT***

Ex ec IIC T6~T3 Gc, Ex tc IIIC T85°C/T100°C/T135°C/T200°C Dc

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- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- Ingress protection: IP6X for tc, IP54 for ec.
- The enclosures entries shall be equipped with accessories (cable entries, plug) CCC certified and adapted to the intended use, in accordance with requirements of standard GB/T 3836.15.

- Operating ambient temperature type CSI***** and CTI***** :

(1) With a transmitter or indicator, it depends on the explosion-proof certified transmitter or indicator used by the user.

(2) Without transmitter :

Type of connecting head	Ambient temperature	Temperature classification
DAN, DANW, NA, DA, DAD, DAWD, B, A, AD, NS (XI-NS), DNAG, GUA, S, Exe DANA, Exe DANAW, KNE, KH, XD-..., XE-DANAW did, TTE 100	-40°C to +80°C	T6 / T85°C
	-40°C to +95°C	T5 / T100°C
	-40°C to +100°C	T4 / T135°C
DAN, DANW, NA, DA, DAD, DAWD, B, A, AD, NS (XI-NS), DNAG, KNE, KH (with silicon gasket)	-40°C to +80°C	T6 / T85°C
	-40°C to +95°C	T5 / T100°C
	-40°C to +130°C	T4 / T135°C
	-40°C to +150°C	T3 / T200°C

- Operating ambient temperature type PS** and PT** :

Junction box	Temperature classification
-50°C to +80°C	T6 / T85°C
-50°C to +95°C	T5 / T100°C

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-50°C to +130°C	T4 / T135°C
-50°C to +150°C	T3 / T200°C

- The user shall ensure that the thermal transfer of the measured element does not impact the temperature classification of the equipment.
- The temperature elevation of the sensitive element according to the dissipated power is given below :

(1) Types CSI* * * * * and CTI* * * * * :

① with single terminal block : U : 28 V, I : 120 mA, P : 650 mW

Thermocouple : heating ≤ 5K

Resistive probe :

Dissipated power (W)	Temperature elevation (K)	
	1 sensitive element	2 sensitive elements
0.1	15	40
0.2	25	65
0.3	35	83
0.4	48	110
0.5	56	122
0.6	66	145

② The user is equipped with an explosion-proof certified 4-20mA transmitter or indicator:

T6 ~ T4 according to the temperature classification of the used certified transmitter or indicator.

In this case, the temperature elevation is :

thermocouple : heating ≤ 5K.

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resistive probe : temperature elevation is in function of the dissipated power (electrical parameter Po of the transmitter or indicator) : see table above.

(2) Types PS*** and PT*** :

Thermocouple : heating $\leq 5K$.

Resistive probe:

Dissipated power (W)	Temperature elevation (K)	
	1 sensitive element	2 sensitive elements
0.25	20	35
0.50	65	90
0.75	105	155
0.84	115	170

When there are triple element, one of them can only be used as a replacement spare element.

- Types PS*** and PT***: the connection of the cable shall be performed according to the requirements of the standard GB/T 3836.15.

- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2106C087, CQST2106C087/01
- Factory inspection report: CN2021Q010294

4. Certificate change information:

- 1st change on June 01, 2023: Updated the standards for certification.

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