



EU - Type Examination Certificate

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

EPS 14 ATEX 1 473 X

Revision 1

(4) Equipment: Temperature sensor R950 Series (ETR 10 Series)

(5) Manufacturer: WISE Control Inc.

(6) Address: 2022, Deogyong-Daero, Giheung-Gu, Yongin-Si, Gyeonggi-Do, Korea

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 13TH0485.

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

EN 60079-0:2012

EN 60079-7:2007

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

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



II 2G Ex e IIC T6...T1 Gb

Certification department of explosion protection

Nuremberg, 2016-06-03

D. Zitzmann

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Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH. EPS 14 ATEX 1 473 X, Revision 1.

(13)

Annex

(14) **EU - Type Examination Certificate EPS 14 ATEX 1 473 X**

Revision 1

(15) Description of equipment:

The R950 Series (ETR 10 Series) thermosensor is intended for temperature measurement. It is available in different types and consists of a RTD sensor or a thermocouple inside a metal sheath. The R950 Series (ETR 10 Series) is either available with an Ex-e terminal head type or equipped with extended lead wires for the connection to an already certified Ex-e terminal box. The sensors are certified for the use in zone 1, gas group IIC. The temperature class can range from T1 - T6 depending on the used U, I ratings.

The R950 Series (ETR 10 Series) is in general classified into four types:

- Extended directive mounting with terminal head type (DWG No.: ETR10-1)
- Extended directive mounting with terminal head type, spring-load type (DWG No.: ETR10-2)
- Remote mounting with terminal head type (DWG No.: ETR10-3)
- extended lead wire type, steel armored type (DWG No.: ETR10-4)

Electrical data:

max. $U_i = 30 \text{ V}$, for I and P values see point (17).

(16) Reference number: 13TH0485

(17) Special conditions for safe use:

- The temperature sensors are not allowed to exceed the following ratings, even not for a short time:

Temperature class:	I [mA]	U [V]	P [mW]
T6	7 mA	30 V	< 50 mW
T5	13 mA	30 V	< 100 mW
T4	26 mA	30 V	< 200 mW
T3	66 mA	30 V	< 500 mW
T2	86 mA	30 V	< 650 mW
T1	100 mA	30 V	< 750 mW



- Do not open when hazardous atmosphere is present.
- The extended lead wire type R950 Series (ETR 10 Series) sensor must be properly connected according to IEC / EN 60079-14 to a certified terminal box.
- The results of external sources of heating and cooling must be considered by the end user.
- For the connection of the terminal heads certified cable glands have to be used by the end user.
- Ambient temperature range: $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +65^{\circ}\text{C}$

(18) Essential health and safety requirements:

Met by compliance with standards.

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