



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	IECEx EPS 14.0043X	Issue No: 1	Certificate history: <a href="#">Issue No. 1 (2016-06-06)</a> <a href="#">Issue No. 0 (2014-06-24)</a>
Status:	Current	Page 1 of 4	
Date of Issue:	2016-06-06		
Applicant:	WISE CONTROL INC. 2022, Deogyong-Daero, Giheung-Gu, Yongin-Si, Gyeonggi-Do, Korea Korea, Republic of		
Equipment:	temperature sensor R950 Series (ETR 10 Series)		
Optional accessory:			
Type of Protection:	e		
Marking:	Ex e IIC T6... T1 Gb		

Approved for issue on behalf of the IECEx  
Certification Body:

Dieter Zitzmann

Position:

Head of Certification

Signature:  
(for printed version)

Date:

2016-06-06



1. This certificate and schedule may only be reproduced in full.
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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH  
Businesspark A96  
86842 Türkheim  
Germany





# IECEx Certificate of Conformity

Certificate No: IECEx EPS 14.0043X Issue No: 1  
Date of Issue: 2016-06-06 Page 2 of 4  
Manufacturer: WISE CONTROL INC.  
2022, Deogyong-Daero, Giheung-Gu, Yongin-Si, Gyeonggi-Do, Korea  
Korea, Republic of

Additional Manufacturing  
location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements  
Edition:6.0  
IEC 60079-7 : 2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:4

*This Certificate does not indicate compliance with electrical 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:

[DE/EPS/ExTR14.0018/00](#) [DE/EPS/ExTR14.0018/01](#)

### Quality Assessment Report:

[DE/EPS/QAR12.0008/01](#)



# IECEx Certificate of Conformity

Certificate No: IECEx EPS 14.0043X

Issue No: 1

Date of Issue: 2016-06-06

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

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)

CONDITIONS OF CERTIFICATION: YES as shown below:

see annex to CoC.



# IECEx Certificate of Conformity

Certificate No: IECEx EPS 14.0043X

Issue No: 1

Date of Issue: 2016-06-06

Page 4 of 4

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Name change of the product - see below for details.

Old name: ETR 10

Current name: R950 Series (ETR 10 Series)

## Annex:

[TUV\\_Korea\\_annex to IECEx CoC\\_13TH0485\\_1.pdf](#)

Annexe to: IECEx EPS 14.0043X issue No.:1  
Applicant: WISE CONTROL INC., Korea  
Apparatus: Temperature sensor ETR10 Series



#### **Equipment:**

The R950 Series (ETR10 Series) thermosensor series 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 (ETR10 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 (ETR10 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)

#### **"Conditions of Use" for Ex Equipment or "Schedule of Limitations" for Ex Components, if any:**

- 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 (ETR10 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:  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +65^{\circ}\text{C}$

- end of annexe -