



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

Certificate No.: IECEx EPS 17.0034X

Issue No: 0

Certificate history:

Issue No. 0 (2017-09-01)

Status: Current

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Date of Issue: 2017-09-01

Applicant: WISE CONTROL INC.
2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, 17097, Korea
Korea, Republic of

Equipment: Bearing Temperature Sensor R84**

Optional accessory:

Type of Protection: ia

Marking:
Ex ia IIC T6...T3 Ga

Approved for issue on behalf of the IECEx
Certification Body:

H. Schaffer

Position:

Certification manager

Signature:
(for printed version)

Date:

2017-09-01



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





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Manufacturer: WISE CONTROL INC.
2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, 17097, 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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/ExTR17.0031/00](#)

Quality Assessment Report:

[DE/EPS/QAR12.0008/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The bearing temperature sensor type R84** is sensor device, used for measurement (e.g. motor) of temperatures with high accuracy.

Electrical data:

Temperature class T6 : $-40\text{ }^{\circ}\text{C} < T_{amb} < 75\text{ }^{\circ}\text{C}$

1) One Pt100

$U_i = 30\text{V}$, $I_i = 25\text{mA}$, $P_i = 70\text{mW}$

2) Two Pt100

$U_i = 30\text{V}$, $I_i = 15\text{mA}$ (each Pt100), $P_i = 50\text{mW}$ (together)

C_i , $L_i = 0$

Temperature class T5 : $-40\text{ }^{\circ}\text{C} < T_{amb} < 95\text{ }^{\circ}\text{C}$

1) One Pt100

$U_i = 30\text{V}$, $I_i = 55\text{mA}$, $P_i = 630\text{mW}$

2) Two Pt100

$U_i = 30\text{V}$, $I_i = 45\text{mA}$ (each Pt100), $P_i = 760\text{mW}$ (together)

C_i , $L_i = 0$

Temperature class T4 : $-40\text{ }^{\circ}\text{C} < T_{amb} < 130\text{ }^{\circ}\text{C}$

1) One Pt100

$U_i = 30\text{V}$, $I_i = 55\text{mA}$, $P_i = 630\text{mW}$

2) Two Pt100

$U_i = 30\text{V}$, $I_i = 50\text{mA}$ (each Pt100), $P_i = 1\text{W}$ (together)

C_i , $L_i = 0$

Temperature class T3 : $-40\text{ }^{\circ}\text{C} < T_{amb} < 180\text{ }^{\circ}\text{C}$

1) One Pt100

$U_i = 30\text{V}$, $I_i = 40\text{mA}$, $P_i = 255\text{mW}$

2) Two Pt100

$U_i = 30\text{V}$, $I_i = 30\text{mA}$ (each Pt100), $P_i = 260\text{mW}$ (together)

C_i , $L_i = 0$



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SPECIFIC CONDITIONS OF USE: YES as shown below:

The flying leads of the sensor must be installed in a housing with min protection IP20. Refer also the "instruction manual".

The ambient temperature range differs from the standard temp. range. Refer also "instruction manual".

The temperature classes T3 to T6 have to be observed according to the specific application (high temperature).

Due to the specific installation (e.g. motor) the RTD has to be protected from electrostatic charging/ discharging.