



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 15.0027X Issue No: 0 Certificate history:
Status: Current Page 1 of 3 Issue No. 0 (2015-11-27)
Date of Issue: 2015-11-27
Applicant: WISE Control Inc.
2022 Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do,
Korea, Republic of
Electrical Apparatus: Field Junction Box B500
Optional accessory:
Type of Protection: d, e, ia/ib, tb
Marking:
Ex d ia/ib [ia/ib] IIC T6 Gb
Ex d e IIC T6 Gb
Ex tb IIIC T85°C Db IP66/IP67

Approved for issue on behalf of the IECEx
Certification Body:

Dieter Zitzmann

Position:

Certification manager

Signature:
(for printed version)

Date:



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,
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 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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/ExTR15.0029/00](#)

Quality Assessment Report:

[DE/EPS/QAR12.0008/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Junction box constructed as rectangular enclosure with threaded cover and various threaded entries. Intended use is as junction box with Ex-e/Ex-i terminals for thermocouple or with temperature transmitters installed. Enclosure can be installed in zone 1 and 21. Intrinsic safe circuits can be used for connection of certified temperature sensors for use in zone 1 or zone 0 ("ia" circuit).

Max. voltage: 250 V

Max. current: 20 A

IP Rating: IP66/IP67 according to EN 60529

Max installation: 40 terminals (WDU 2.5) + 6 transmitters (SITRANS)

CONDITIONS OF CERTIFICATION: YES as shown below:

Max. ambient temperature range: $-40\text{ °C} \leq T_{amb} \leq +70\text{ °C}$

With SITRANS temperature transducers installed a reduced max. temperature inside enclosure of $+43\text{ °C} / +60\text{ °C}$ for ia / ib application and T6 must be ensured.

For intrinsic safe application only certified terminals and components shall be used. Connection is only allowed for certified intrinsic safe circuits. Connections must be marked accordingly.

A clearance of at least 50 mm between bare conducting parts of terminals for intrinsically safe and non-intrinsically safe circuits must be respected.