



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 IBE 12.0031X	Issue No: 2	Certificate history:
Status:	Current	Page 1 of 4	Issue No. 2 (2016-10-12) Issue No. 1 (2016-01-27) Issue No. 0 (2013-07-17)
Date of Issue:	2016-10-12		
Applicant:	Bartec GmbH Max-Eyth-Str. 16 97980 Bad Mergentheim Germany		
Equipment:	Measuring, Control and Switchgear combination type 07-3***_****/****		
Optional accessory:			
Type of Protection:	Different		
Marking:	Ex db eb ma/mb op is q ia/ib [jb] IIA, IIB, IIC T6, T5, T4, T3 Gb Ex db eb ma/mb op is q ia/ib [ja Ga] IIA, IIB, IIC T6, T5, T4, T3 Gb Ex tb op is [ib] IIIA, IIIB, IIIC, T80 °C, T100 °C, T130 °C Db Ex tb op is [ja Da] IIIA, IIIB, IIIC, T80 °C, T100 °C, T130 °C Db		

Approved for issue on behalf of the IECEx
Certification Body:

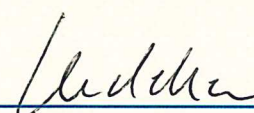
Prof. Dr. Tammo Redeker

Position:

Head of Certification Body

Signature:
(for printed version)

Date:


2016-10-12

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:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany



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Manufacturer: **Bartec GmbH**
Max-Eyth-Str. 16
97980 Bad Mergentheim
Germany

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 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-5 : 2015 Edition:4.0	Explosive atmospheres –Part 5: Equipment protection by powder filling "q"
IEC 60079-7 : 2015 Edition:5.0	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/IBE/ExTR12.0015/00

DE/IBE/ExTR12.0015/01

DE/IBE/ExTR12.0015/02

Quality Assessment Report:

DE/TUN/QAR06.0017/08



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The explosion-proof Measuring, Control and Switchgear combination is used for the control of electrical apparatus and/or for the power distribution. The stationary switchgear combination can be used in areas in which equipment of EPL Gb or Db is required.

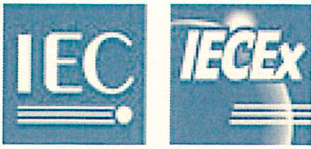
The enclosures are produced from polyester resin, stainless steel or aluminium. They are separately certified in type of protection "Ex e" or "Ex t". They contain measuring-, controlling- and switching devices and can be equipped with actuating elements, indication lights and inspection glasses, if required. All built-in and attached components are separately tested according to the Ex standards. The built-in components for dustproof control units can be designed in accordance with the industrial standards. The electrical connections are carried out via Ex cable entries on terminals. Connecting parts for intrinsically safe circuits are separately marked. Separately certified pneumatic valves in combination with bulkhead connector and poly-amide tubes, manufactured by Riegler & Co. KG may also be used.

For the final assembly of the differently sized enclosures the permissible dissipation power is determined to consider the operating conditions of the individual apparatus/components which are intended to fit in/install on the enclosures. In addition, the temperature class to be marked and the maximum surface temperature must be determined. The respective types of protection are marked following the specifications of the certificates.

Further details see attachment

CONDITIONS OF CERTIFICATION: YES as shown below:

- The maximum surface temperature at the polyamide hose may not exceed 60 °C.
- The values mentioned in the certificate are maximum values. The rated values depend on the used components.
- The ambient temperature range, the maximum surface temperature as well the temperature class have to be determined by the manufacturer depending on used components.
- It may be a potential risk of electrostatic discharge from plastic window in the enclosures, refer to the instructions .



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

The Measuring, Control and Switchgear combination complies with the requirements of the current standards.

Annex:

[Annex2IBE12.0031X_01.pdf](#)