



# 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 PTB 11.0082U	Issue No: 4	<b>Certificate history:</b> Issue No. 4 (2015-04-14) Issue No. 3 (2014-12-11) Issue No. 2 (2013-02-07) Issue No. 1 (2011-09-30) Issue No. 0 (2011-09-13)
Status:	Current	Page 1 of 5	
Date of Issue:	2015-04-14		
Applicant:	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany		
Electrical Apparatus: <i>Optional accessory:</i>	Control module type 07-7331-****/****		
Type of Protection:	db, e, ia resp. ib		
Marking:	Ex db e [ia Ga] IIC resp. IIB Gb Ex db e [ib] IIC resp. IIB Gb Ex db e [ia Ma resp. ib] I Mb		

Approved for issue on behalf of the IECEx  
Certification Body:

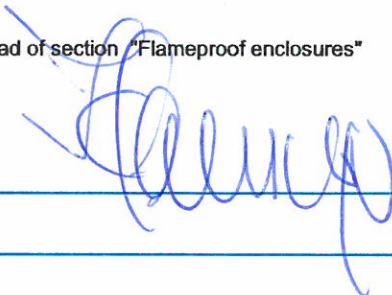
Dr.-Ing. Uwe Klausmeyer

Position:

Head of section "Flameproof enclosures"

Signature:  
(for printed version)

Date:



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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:



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Certificate No: IECEx PTB 11.0082U  
Date of Issue: 2015-04-14  
Manufacturer: BARTEC GmbH  
Max-Eyth-Straße 16  
97980 Bad Mergentheim  
Germany

Issue No: 4

Page 2 of 5

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 60079-7 : 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/PTB/ExTR11.0090/01](#)

#### Quality Assessment Report:

[DE/TUN/QAR06.0017/03](#)



# IECEX Certificate of Conformity

Certificate No: IECEx PTB 11.0082U

Issue No: 4

Date of Issue: 2015-04-14

Page 3 of 5

## Schedule

### EQUIPMENT:

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

*The Control Module Typ 07-7331-\*\*\*\*/\*\*\*\* was verified with respect to the state of the art of the standards.  
The withstand temperature is limited to 100 ° C.  
The enclosure is only completely filled with glass beads Ø 0.75 mm.  
All other data remain unchanged.*

### CONDITIONS OF CERTIFICATION: NO

See attachment!



# IECEx Certificate of Conformity

Certificate No: IECEx PTB 11.0082U

Issue No: 4

Date of Issue: 2015-04-14

Page 4 of 5

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

*The Control Module Type 07-7331-\*\*\*\*/\*\*\*\* was verified with respect to the state of the art of the standards.  
The withstand temperature is limited to 100 ° C.  
The enclosure is only completely filled with glass beads Ø 0.75 mm.  
All other data remain unchanged.*





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Certificate No: IECEx PTB 11.0082U

Issue No: 4

Date of Issue: 2015-04-14

Page 5 of 5

**Additional information:**

None.

**Annex:**

[Description and conditions of use 01-7331 BARTEC.pdf](#)

<b>Description</b>	<b>BARTEC</b>
	13.11.2014
Control Component	01-7331-6B0002_V3
Type 07-7331-****/****	Page 1/2

### Description of equipment

The primary function of the Control Component Type 07-7331-\*\*\*\*/\*\*\*\* with pressure-proof housing is Controlling, adjusting, switching and displaying of electric circuits. It's permitted to fit Control elements such as key tappets and arbores as well as luminescent bars for detector and indicator displays.

They are to be connected to the integrated terminals.

The Control Component is clipped onto assembly rails. A consecutive arrangement is permitted.

The Control Component, type 07-7331-\*\*\*\*/\*\*\*\* may also be equipped with certified associated and/or intrinsically safe apparatus and/or simple apparatus.

The „Electrical data“ of these Ex i equipment are specified in the respective EC-type-examination certificates.

### Technical data

Rated voltage, up to	400V	
Dissipation Power	Single	Consecutive arrangement
	for T6 at Ta 40°C max.	15 W
	for T6 at Ta 60°C max.	8 W
	for T4 at Ta 40°C max.	22 W
	for T4 at Ta 60°C max.	15 W
Rated cross-sectional area max.	2,5 mm <sup>2</sup>	
Max. number of terminals	2 to 48	
Service temperature range	-40°C to +100°C	
Max. withstand temperature	100°C	
Temperature classification	T6 to T4	
Lowest ambient temperature	-40°C	

The rated voltage, rated current and - in the case of switchgear - the utilisation category depends on the elements that have been built in and are set by the manufacturer.

### Model / type code

<b>Type nr.</b>	<b>07</b>	<b>-</b>	<b>7</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>/</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>
<b>Code nr.</b>	<b>A</b>		<b>B</b>	<b>C</b>	<b>D</b>			<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>		<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>

<u>Code</u>	<u>Code for:</u>	<u>Variation</u>	<u>Description</u>
<b>A</b>	Ground program	07	ExCo
<b>B</b>	Component	73	Modular built-in components
<b>C</b>	Terminal	3	Rail mounted terminals
<b>D</b>	Design	1	First design
<b>E-L</b>	Code number and characteristics for variants without any effect on explosion protection.		

<b>Description</b>	<b>BARTEC</b>
	13.11.2014
Control Component	01-7331-6B0002_V3
Type 07-7331-****/****	Page 2/2

### Special Conditions of Use

The Control Component must be built into a housing that complies with a valid protection class as detailed in IEC 60079-0 section 1.

When installing the Control Component into a housing of the Protection class Increased Safety "e", as detailed in IEC 60079-7 it has to be ensured that sparking and leakage distances are kept as required in sections 4.3 and 4.4 and Table 1.

The Control Component can be used in Groups I and II, as the standard requirements are identical in this case.

The enclosure of the Control Component must be filled up completely with glass beads with a diameter of  $\varnothing$  0.75 mm.

### Routine Check Test

The relevant routine checks are explained in the document 01-7331-6S0001.

It is not necessary to carry out the routine test according to IEC 60079-1 section 16.1.1, as the volume of the built-in switch component is smaller than 10 cm<sup>3</sup> and according to section 16.2, enclosures with a volume of 10 cm<sup>3</sup> or less are exempted from the routine test.