



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

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Status: **Current** Issue No: 2 [Issue 1 \(2019-10-15\)](#)  
[Issue 0 \(2017-12-18\)](#)  
Date of Issue: 2020-04-20  
Applicant: **BARTEC GmbH**  
Max-Eyth-Straße 16  
97980 Bad Mergentheim  
Germany  
Equipment: **Wireless radio enclosure**  
Optional accessory:  
Type of Protection: **Ex e and Ex d**  
Marking: Ex db eb IIC T6 Gb Tamb: -20°C to +56°C/60°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Asle Kaastad**

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**DNV GL Presafe AS**  
Veritasveien 3  
1363 Høvik  
Norway





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Manufacturer: **BARTEC GmbH**  
Max-Eyth-Straße 16  
97980 Bad Mergentheim  
Germany

Additional  
manufacturing  
locations:

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 equipment 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 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

This Certificate **does not** indicate compliance with 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:

[NO/PRE/ExTR17.0052/02](#)

Quality Assessment Report:

[DE/TUN/QAR06.0017/11](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Wireless Router is protected with type of protection "flameproof enclosure" and "increased safety". It is intended for fixed installation. Ex d compartment is made from metallic "bottom chassis", non-metallic "dome" and metallic "top ring" fixed together by special fasteners and cemented. Ex e enclosure is made from "bottom chassis" and "cover" with O-ring fixed by fasteners on the top.

Electronic components are located in Ex d compartment while the connection terminal for field wiring is located in Ex e compartment which is provided with three threaded holes for cable entry.

**Type designation:** Wireless Radio Enclosure

Applicable models: BPX-WX-\*\*-\*\*\*-\*\*\*-\*\*\*/... (see attachment for detailed explanation)

## Electrical data:

Voltage: 85-264 VAC (47-63) Hz, 120-370 VDC

Current: 10 A

## Ambient temperature:

-20°C to +60°C for equipment with chassis made from aluminum

-20°C to +56°C for equipment with chassis made from stainless steel

## Degrees of protection (IP Code)

IP65

**Routine tests:** Each enclosure has to be submitted to routine overpressure test (11.1 bar acc. Cl. 16 of IEC 60079-1:2014)

## SPECIFIC CONDITIONS OF USE: YES as shown below:

"X" - The instruction indicates all the necessary information to ensure the installation and use minimize the risk from electrostatic discharge.

"X" - Equipment must only be placed in areas with low risk of mechanical danger (ref clause 26.4.2 in EN 60079-0).



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**  
- minor design changes on screws&blind holes

**Annex:**

[WX\\_Product\\_codes\\_02.pdf](#)

BPX-WX-\*\*-\*\*\*-\*\*\*-\*\*\*-\*\*\*/...

ID number for main material:  
AL: Aluminum chassis

ID number for cert rating:  
Zn1: Zone 1 version  
Zn2: Zone 2 version

ID number for configuration:  
FIB: Fiber cable and power cable  
ETH: Ethernet cable and power cable  
POE: Ethernet cable with POE  
PWR: Power cable

ID number for additional cable options  
STN: No additional option  
DSY: Daisy chain

ID numbers for internal hardware  
Does not influence explosion protection