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# EU-TYPE EXAMINATION CERTIFICATE

- [2] Product Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- [3] EU-Type Examination Certificate Number: **Presafe 14 ATEX 4900X** **Issue 1**
- [4] Product: **Xbeam A EX (Antenna)**
- [5] Manufacturer: **Bartec Technor AS**
- [6] Address: **Vestre Svanholmen 24,4313 Sandnes Norway**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 16.


[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018 & EN 60079-31:2014**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 2 G Ex eb IIC T6 Gb , -40°C ≤ Ta ≤ +60°C**  
**II 2 D Ex tb IIIC T85°C Db, -40°C ≤ Ta ≤ +60°C**

Date of issue:  
2021-06-16



Asle Kaastad  
For DNV Product Assurance AS  
The Certificate has been digitally signed.  
See [www.dnv.com/digitalsignatures](http://www.dnv.com/digitalsignatures) for info

[13] **Schedule**

[14] **EU-Type Examination Certificate No:** Presafe 14 ATEX 4900X Issue 1

[15] **Description of Product**

This certificate covers Bartec Technor AS antenna for bracket mounting, Xbeam A EX. The antenna is manufactured with permanently connected unterminated cable of different length. The antenna can be delivered with three different antennas PCBs for different frequencies.

**Type Identification**

Xbeam A EX \*

\*= frequency (2.4 , 5, 2.4-5.8) GHz.

**Electrical Data**

Max input voltage: 20Vpp

Max input power: 2W (RF)

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Max input voltage: 20Vpp

Max input power: 2W (RF)

**Degrees of protection (IP Code):** IP 66 & 67 according to EN 60079-0

**Ambient temperature:**

-40°C to +60°C

**Routine tests**

Dielectric strength test according to EN 60079-7, clause 7.1

[16] **Report No.:** 223350

**Project No.:** PRJN-223350-2021-PA-NOR

[17] **Specific Conditions of Use**

- The antenna is constructed with permanently connected unterminated cable that must be properly protected, and the end connection must be carried out in an appropriate certified "Ex e" or "Ex d" enclosure or in safe area.
- Additional clamping of cable shall be installed to ensure that pulling and twisting is not transmitted to the terminations inside the antenna.

**Notes for manufacture, installation, and operation:**

- Antenna has been tested along with the bracket. Bracket supports the antenna in Ex safety. The antenna must be mounted on the belonging bracket and the bracket must be connected to earth.

[18] **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

## [19] Drawings and documents

Number	Title	Rev.	Date
ANT-19-4	Production drawing body of the antenna	B	2021-04-28
ANT-30-4	Antenna housing	A	2021-02-16
ANT-29-4	General arrangement drawing for Ex e Antenna IP 66	A	2021-02-08
ANT-03-4	Bracket for Ex e Antenna	F	2021-02-08
ANT-20-4	Antenna plastic enclosure	A	2014-07-15
ANT-14-4	General arrangement drawing for Ex e Antenna IP66 Alternative 1 with modified cable gland	I	2021-02-08
ANT-21-4	General arrangement drawing M20 gland modified for M25 opening	A	2014-07-15
ANT-12-4	Antenna card, 2.45 GHz	A	2012-10-26
ANT-13-4	Antenna card, 900 MHz	A	2012-10-26
ANT-27-5	Label for Antenna type Xbeam A Ex	A	2020-09-24

## [20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2014-08-15	D0001402
1	Assessment for new bushing assembly (alternative 2), assessment for IEC 60079-0 Ed.7 IEC 60079-7 Ed.5.1, IEC 60079-31 Ed.2 & assessment for -40 ambient.	2021-06-16	223350

END OF CERTIFICATE