

EU-TYPE EXAMINATION CERTIFICATE

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: **Presafe 20 ATEX 74578 X** **Issue 0**
- [4] Product: **EXgate® Radio Dot System Enclosure**
- [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 GL Presafe AS, notified body number 2460, in accordance with Article 17 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 section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015/A1:2018 and EN 60079-31:2014.
- [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. 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 db eb IIC T6/T5 Gb Ex db IIC T6 Gb	for T class and T_{amb} details see [15]
	II 2 D	Ex tb IIIC T 95°C/80°C Db Ex tb IIIC T 70°C Db	

Date of issue:
2020-12-04



Ståle Sandstad
For DNV GL Presafe AS
The Certificate has been digitally signed.
See www.dnvgl.com/digitalsignatures for info



[13] **Schedule**

[14] **EU-Type Examination Certificate No:** Presafe 20 ATEX 74578 X Issue 0

[15] **Description of Product**

EXgate® Radio Dot System enclosure is a wireless router protected with type of protection "flameproof enclosure" which can include externally assembled Ex certified socket (receptacle) or "increased safety" enclosure as junction box. It is intended for fixed installation. "Dust protection" (w/o dust layers) is assured with appropriate O-ring between the enclosure body and top and with a gasket between enclosure body and junction box. Enclosure is made of stainless steel. Enclosure's bottom and top are fixed together by flameproof threaded joint. Enclosure top includes non-metallic dome cemented on the metallic top of the enclosure.

Electronic components are located inside the flameproof enclosure including connection terminals for field wiring. Flameproof enclosure is provided with three threaded holes (direct entries) in flameproof enclosure intended for Ex certified receptacle, line bushing and cable glands.

Version with external enclosure is intended for indirect entry (via line bushing) and includes connection terminals for field connection located inside the junction box made of thin stainless steel sheet with a thickness of 1,5mm. The junction box is provided with up to three entries (plane holes) intended for cable glands.

All free entries are supplied with the appropriate Ex certified blanking elements.

Type design: EXgate®

Applicable models: EXgate® 215 (see marking for different versions of the product as follows):

-version with assembled Ex d receptacle:

Ex db eb IIC T6/T5 Gb, $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +36^{\circ}\text{C} / +40^{\circ}\text{C} / +46^{\circ}\text{C}$

Ex tb IIIC T 95°C / 80°C Db

-version with assembled Ex e enclosure (junction box):

Ex db eb IIC T6 Gb, $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +36^{\circ}\text{C} / +41^{\circ}\text{C} / +46^{\circ}\text{C}$

Ex tb IIIC T 70°C Db

-version w/o assembled Ex items:

Ex db IIC T6 Gb, $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +36^{\circ}\text{C} / +41^{\circ}\text{C} / +46^{\circ}\text{C}$

Ex tb IIIC T 70°C Db

Ambient temperature, T class and max. surface temperature:

Maximum power (dissipation)	Ambient temperature	T Class / surface temp.
20W	$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +46^{\circ}\text{C}$	T6 / 70°C
26W	$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +41^{\circ}\text{C}$	T6 / 70°C
30W	$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +36^{\circ}\text{C}$	T6 / 70°C
Version with assembled Ex d receptacle	$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +36^{\circ}\text{C} / +40^{\circ}\text{C}$	T6 / 80°C
Version with assembled Ex d receptacle	$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +46^{\circ}\text{C}$	T5 / 95°C
Version with assembled Ex e enclosure with silicone gasket	$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +36^{\circ}\text{C}/+41^{\circ}\text{C}/+46^{\circ}\text{C}$	T6 / 70°C
Version with assembled Ex e enclosure with neoprene gasket	$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +36^{\circ}\text{C}/+41^{\circ}\text{C}/+46^{\circ}\text{C}$	T6 / 70°C

Electrical data and principal characteristics:

Rated voltage: 24 VDC, POE (37 – 57 V DC) / 230 VAC

Rated current: ≤ 1,5A (DC), ≤ 0,2A (AC)

Ingress protection IP: IP66

Routine tests

Routine overpressure test at 39.6 bar for duration of at least 10 seconds acc. Cl. 16 of EN 60079-1:2014 for flameproof enclosure.

Dielectric strength test according to Clause 7.1 of EN 60079-7:2015 (500V/1500V R.M.S. for U_n 24V/230V) (0-5%) at 48-62 Hz maintained 60s or 1.2 x test voltage maintained at least 100 ms for increased safety enclosure.

[16] **Report No.:** SC190073
Project No.: PRJN-190073-2020-PA-NOR

[17] **Specific Conditions of Use**

“X”- The Instructions provide guidance for the user to minimize the risk from electrostatic discharge

“X”- Flameproof threaded joint M208x2 6g/6H. Minimum 9.5 (nine and half) threads must be engaged.

“X”- Flameproof threaded joints M20/25x1.5 6g/6H. Minimum 7 (seven) threads must be engaged.

“X”- When a Connector half fitted with contact pins is not connected to an associated Plug or Receptacle, it shall not be energized as per EN IEC 60079-0:2018, clause 20.2

“X”- Plugs and receptacles shall only be used with blanking caps or mating Connector halves certified under certificate number Sira 07ATEX1229X.

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

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] **Drawings and documents**

Number	Title	Rev.	Date
EXA-19-4	EXgate®215 Ex d enclosure with possible Ex e enclosure	A	2020-11-16
EXA-20-4	Ex d Enclosure EXgate® 215	A	2020-11-25
EXA-23-5	Type Label for EXgate®, ATEX and IECEx	A	2020-10-12
XCD-49-2	Ex d Top for dome	N	2020-09-09
CNX-516-2	Ex e Enclosure TNCN 080805 for EXgate®	B	2020-11-16
EXA-11-2	Gasket for TNCN 080805 mounted on EXgate®	B	2020-11-16
EX-25-3	Connection diagram EXgate® 215 with PoE configuration	A	2020-10-16
EX-27-3	Connection diagram EXgate® 215 with receptacle configuration	B	2020-11-11
EX-28-3	Connection diagram EXgate® 215 with direct entry	B	2020-11-16

[20] **Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2020-12-04	SC190073

END OF CERTIFICATE

This certificate may only be reproduced in its entirety and without any change, schedule included.

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