



# 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)

### Ex COMPONENT CERTIFICATE

Certificate No.: IECEx NEM 10.0001U

Issue No: 5

Certificate history:

Status: **Current**

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Issue No. 5 (2019-02-18)

Date of Issue: **2019-02-18**

Issue No. 4 (2017-10-05)

Applicant: **BARTEC TECHNOR AS**

Issue No. 3 (2017-09-25)

Vestre Svanholmen 24

Issue No. 2 (2013-07-04)

4313 Sandnes

Issue No. 1 (2011-06-29)

PO box: 418, 4064 Stavanger

Issue No. 0 (2010-07-02)

**Norway**

Ex Component: **Empty Flameproof Enclosure**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Ex d**

Marking:

Ex db IIC Gb

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





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Manufacturer: **BARTEC TECHNOR AS**  
Vestre Svanholmen 24  
4313 Sandnes  
PO box: 418, 4064 Stavanger  
Norway  
**Norway**

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 Component 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 Ex Component 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

*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 Ex Component listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

DE/TUN/ExTR12.0013/00 NO/NEM/ExTR10.0003/00 NO/NEM/ExTR10.0003/01  
NO/NEM/ExTR10.0003/02 NO/PRE/ExTR17.0049/01 NO/PRE/ExTR17.0049/02

#### Quality Assessment Report:

NO/NEM/QAR07.0003/11



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## Schedule

Ex Component(s) covered by this certificate is described below:

Description of Component:

The TNCD is empty flameproof enclosure certified as component.

The Certificate covers TNCD Empty Enclosures of Stainless Steel which may be equipped with:

- Internal hinges.
- Glass window in lid, walls and bottom of enclosure (optional).

Type Designation :

TN	CD	XX	XX	XX
				Dimension of box, depth in cm, max. 38cm
			Dimension of box, height in cm, 19 to 57cm	
		Dimension of box, width in cm, 19 to 57cm		
	Material: CD = Stainless Steel AISI 316L/CF-3M			

Manufacturer

The empty flameproof enclosure has been certified as Ex component according to IECEx NEM 10.0001U (Issue 02). Cementing material of the window has been changed in order to extend the ambient temperature range.

This certificate is made based on the previous issue and report DE/TUN/ExTR12.0013/00 and intended to:

- cover extended ambient temperature range for enclosure models both with- and w/o glass window and cemented joint
- substitute the routine testing requirement for enclosure models with glass window and cemented joint up to size of 38x38x27.
- include new models TNCD282815-TNCD282827 with cemented polycarbonate dome in cover.

Only explosive gas atmospheres have been evaluated and tested (IIC).

- The requirements in clause D4 of IEC 60079-1:2014 shall be observed
- Only appropriate certified (Ex d) cable glands, blanking elements or other entry devices shall be used.

### SCHEDULE OF LIMITATIONS:

-the maximum number of apertures are 92, the maximum size is M42. The detailed specifications for each enclosure size are in drawing with the reference numbers as follows: CDX-102-4, CDX-103-4, CDX-104-4, CDX-105-4, CDX-106-4, CDX-107-4 and CDX-108-4, rev. B as listed below in Technical documentation. -ambient temperature range: -enclosures without glass window and cemented joint: -52°C to +60°C

-enclosures with glass window (cemented joint): -50°C to +60°C

-oil-filled circuit-breakers, contactors and rotating machines shall not be used,

-the content of the Ex component enclosure equipment may be placed in any arrangement provided that an area of at least 40 % of each cross-sectional area remains free to permit unimpeded gas flow and, therefore, unrestricted development of an explosion. Separate relief



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areas may be aggregated provided that each area has a minimum dimension in any direction of 12,5 mm;

-when windows are used the temperature on the cementing/window shall not exceed +80°C, the temperature on the polycarbonate dome shall not exceed +100°C.



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

Option with cemented polycarbonate dome in cover included in models TNCD282815-TNCD282827.



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**Additional information:**