



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

Certificate No.: IECEx DNV 09.0005U Issue No: 1 Certificate history:
Status: **Current** Page 1 of 5 [Issue No. 1 \(2014-10-03\)](#)
Date of Issue: **2014-10-03** [Issue No. 0 \(2009-11-02\)](#)
Applicant: **BARTEC TECHNOR AS**
Dusavikveien 39
4007 Stavanger
Norway
Electrical Apparatus: **TNCN ..**
Optional accessory:
Type of Protection: **Increased Safety and Dust**
Marking: Ex e IIC Gb
Ex tD A21 IP66-68

*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](#).

Certificate issued by:

DNV
Det Norske Veritas AS
Veritasveien 1
1322 Hovik
Norway





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Manufacturer: **BARTEC TECHNOR AS**
Dusavikveien 39
4007 Stavanger
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 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 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-0 : 2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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:

[NO/DNV/ExTR09.0008/00](#) [NO/DNV/ExTR09.0008/01](#)

Quality Assessment Report:

[NO/NEM/QAR07.0003/07](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of component:

The TNCN Junction Box comprises a stainless steel enclosure in various sizes up to max 1000x2200xXXX. Enclosures can be delivered with cover screws, hinges and cover screws, hinges and quick locks.

Operating temperatures:

Operating temperature for neoprene gasket: -40 °C to +100 °C.
Operating temperature for silicon gasket: -50 °C to +200 °C.
Operating temperature for silicon gasket SIL 16: -50 °C to +110 °C

Type Identification

TNCN ...

Degrees of protection (IP Code)

Option 1: IP66 / IP67. The silicon gasket also satisfy IP68 (0.2 bar for 30 minutes)

Option 2:

2.1: For enclosure with silicone gasket, cover screws, covers screws and hinges and extended Tamb to -50°C: IP66

2.2: For enclosure with silicone gasket SIL 16, cover screws, cover screws and hinges and extended Tamb to -50°C: IP66/67, IP68 (0,2 bar for 30 min)

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT (continued):

Variations:

- The enclosure can be equipped with windows in lid up to a max size of 0.3 m² for each window. Material of window can be either glass and/or Lexan.
 - If Lexan window is used the following label must be present on the TNCN box "WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS"
- Mounting of all types of approved transit frames is allowed.
- Several TNCN junction boxes may be mounted together using a special flange connection, or welded together.
- TNCN may be supplied with gland plates.
- TNCN may be supplied with one or several doors.

Schedule of Limitations

If Lexan window is used there is a risk for electrostatic discharge, and the following label must be present on the TNCN box "WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS"



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

Updated standard for gas, additional gasket material