

TNXCC Ex-proof housing BARTEC TECHNOR

User Manual

95583146 01/05/16e

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Scope

USER MANUAL TNXCC Complete enclosure, DNV certified



 Date:
 Rev.
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 Approved by E.T
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 Document no. :

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 1 of 1
 53-XCC-5

Marking

A certification label is attached to the enclosure, ref. Fig 1. If not otherwise noted with a special label the standard T.amb. is –20 to +40 degr. C

Handling

Due to the weight and nature of the enclosures precautions have to be taken to avoid damages to the equipment and the individual. The enclosures flame path must be securely protected to avoid damage, all openings to the exd part that are not sealed is a flame path.

Installation/ Dismantling

When mounting the enclosure ensure that the mounting support is able to take the full weight of the enclosure. If any twisting or bending is likely, use washers or packing plates as necessary before the screws or nuts are tightened.

DO NOT OPEN LID BEFORE THE ENCLOSURE IS SECURELY FASTENED.

When connecting cables, ensure the incoming cables/wires are isolated from all sources of power. Installation to be performed according standard IEC 60079-14 (NEK 420) and/or the requirements for the actual installation site.

NOTE! Always read the requirements in the certificate and in the documentation for the enclosure (wiring diagram etc.), before connecting the enclosure to power source and other equipment intended for the enclosure.

It is the company installing the enclosure that is responsible that the technical data for the enclosure match the technical data to which the cabinet is connected. Special attention to be made on the ex and safety aspects.

All entries to the enclosure must be of ex-approved types and all other openings blinded with an approved blindplug.

Do not connect the power before installation is completed and lid mounted on enclosure.

When removing the enclosure, the same precautions apply as those observed when mounting the enclosure.

Inspection / Maintenance

TNXCC enclosures are made of acid resistant stainless steel and thereof not subject to corrosion.

Apply copper grease to lid, bolt threads and tapered holes, etc.

We recommend that maintenance is performed in accordance with the IEC 60079-17/60079-1 (NEK 420) standards.

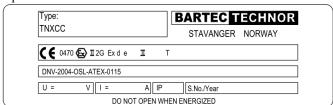
It is vital that threads are protected with copper grease or other approved greases after they have been dismantled.

If any damages are found, the enclosure should be put out of service and the manufacture contacted. Further technical information's is available on www.bartec.no

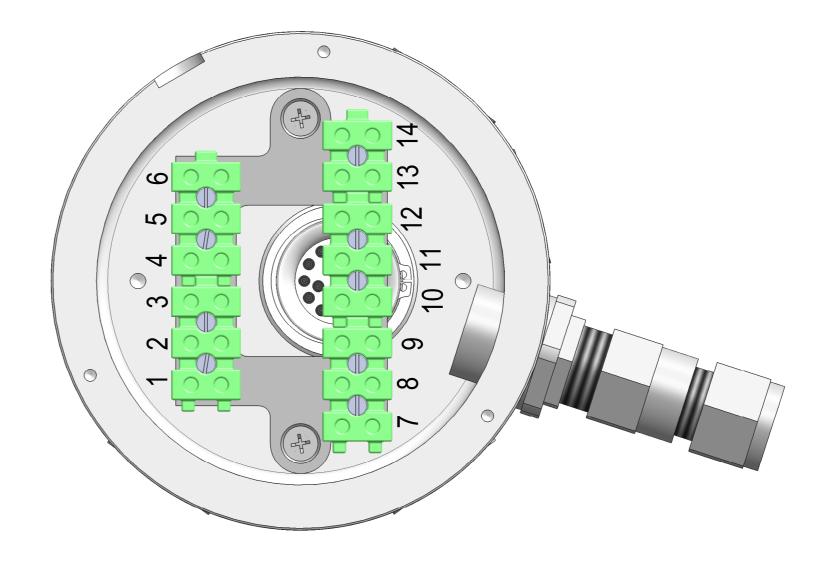
Fig.1

Type: TNXCC			BARTEC T	
(€ 0470 ⓑ II 2G Ex d	I	Т		
DNV-2004-OSL-ATEX-0115				
U = V I =	A	IP	S.No./Year	
DO NO	T OPEN	WHEN	I ENERGIZED	

Option:



1			2
Klemme 13 clamp 13	braun brown	+	Versorgungsspannung
Klemme 14 clamp 14	weiß white	-	Versorgungsspannung Supply voltage
Klemme 7 clamp7	gelb yellow	+	Analogausgang
Klemme 8 clamp 8	grün green	-	Analog output
Klemme 9 clamp 9	rosa pink		TXD
Klemme 10 clamp 10	blau blue		RXD
Klemme 11 clamp 11	schwarz black	<u>'</u>	СОМ
Klemme 12 clamp 12			CTS
Klemme 3 clamp 3	braun/we brown/wh		DTR
	rot/blau red/blue		Open-Collector-Ausgang
Klemme 4 clamp 4	violett		RTS
Klemme 1 clamp 1	grün/weiß green/white grau/rosa grey/pink		+Thermoschalter - thermal switch Analogeingang - analog input Schalteingang - switch input
			Galvanisch getrennter - isolated digital Digitaleingang (DI) input 24V-Logik / 5Volt-Logik - 24V-logic / 5V logic
			Open-Collector - openCollector logic Ausgang 2 (DO2) output 2 (DO2)
Klemme 2 clamp 2	- 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-Thermoschalter Analogeingang Schalteingang
			DI/DO-Null (Gnd)
			DI/DO/DO2-Null (Gnd)
Klemme 5 clamp 5			Heizung +
Klemme 6 clamp 6			Heizung -



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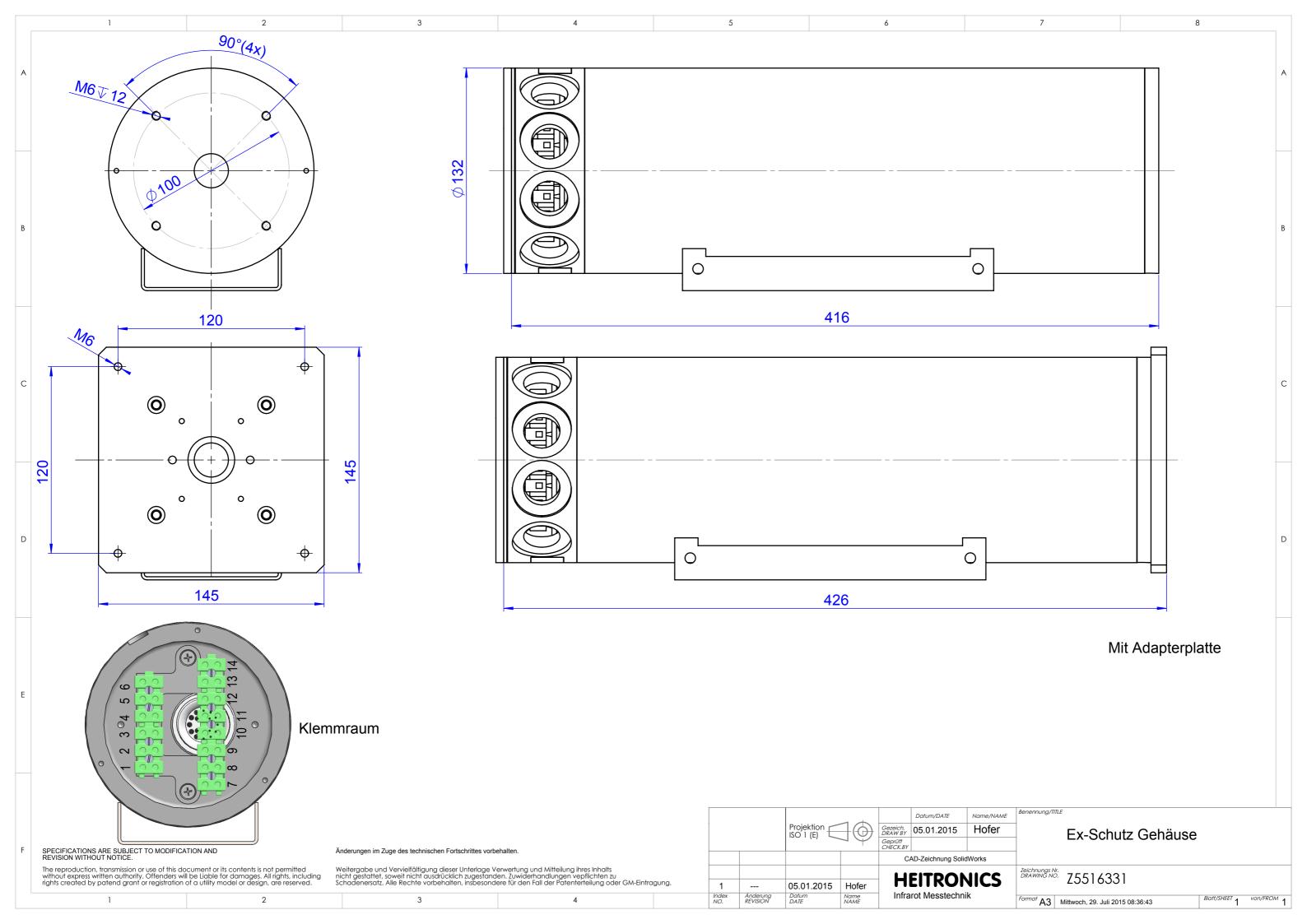
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BARTEC TECHNOR AS EC-DECLARATION OF CONFORMITY

[2]	EQUIPMENT INTENDED) FOR USE IN POT	ENTIALLY EXPLOSIVE	ATMOSPHERE	DIRECTIVE 94/9/FC

[3] EC-Declaration of Conformity Number: TEC-16-ATEX-HEITRONICS-381434-C

[4] Equipment: TNXCC 130

Ex d enclosure with Infrared Thermometer

[5] Applicant-Manufacturer: Bartec Technor AS

[6] Address: P.O.Box 658, Dusavikveien 39

4003 Stavanger

Norway

[7] This document and any acceptable variation specified in the schedule to this declaration and the documents therein refered to is manufactured under control of the PRODUCTION QUALITY ASSURANCE NOTIFICATION no: Nemko 00ATEX465Q by Nemko notified body no. 0470

[8] EC-type Examination Certificate valid for this declaration: DNV-2004-OSL-ATEX-0115

[9] Bartec Technor AS, declares that this equipment has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the 94/9/EC Directive. Other relevant directives: 2004/108/EC

The examination and test results are recorded in confidential report no. 16-HEITRONICS-381434

[10] Compliance with the Essential Health and Safety Requirements has been assured by following:

a. Harmonized standards: EN60079-0:2012, EN60079-1:2007, EN60079-7:2007

b. Non-harmonized standards: NA

[11] This EC-Declaration of Conformity relates only to the design and construction of the specified equipment described and document referred to in this declaration. Compliance during installation, use and maintenance can only be achieved by observing the state of the art, applicable installation standards and manufacturer instructions.

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

x

II 2 G, Ex d e IIC T5 Gb Tamb: -50°C to + 60°C

Stavanger 17.02.2016
On behalf of Bartec Technor AS

Additional marking: NA

Egil Tønnesen

QA/HSE Director / ATEX-IEC responsible person

Signert av: Egil Tønnesen

Terje Hettervik

Certification Engineer

Signert av: Terje Hettervik

Tegi Ketterik

This Declaration of Conformity in accordance to the European Standard EN 17050-1 "Conformity assessment - Supplier's declaration of conformity - Part 1 and standard EN 17050-2 "Conformity assessment - Supplier's declaration of conformity - Part 2

Note: This Declaration is subject to terms and conditions overleaf. Any changes in design or construction will render this Declaration invalid.

Scope:

ANNEX TO USER MANUAL



Rev: Date: Checked by: Approved by: Page: Ref no.:

C 17/02/2016 T.H. E.T. 1 of 1 HEITRONICS-381434

ANNEX TO USERMANUAL COVERED BY EC-DECLARATION OF CONFORMITY No:

TEC-16-ATEX-HEITRONICS-381434-C

[1] Description of Equipment:

The system comprises of an Ex d enclosure equipped with Infrared Thermometer TNXCC 130 stainless steel enclosure (Dim Ø: 130mm L: 360mm)

[1.1] Electrical Data

Un = 12-24 VDC / 12-24 VAC In = 300mA@12V / 150mA@24V

Tamb: $-50^{\circ}\text{C} \text{ to } + 60^{\circ}\text{C}$

Degrees of protection (IP code)

IP: 66

[1.2] Variations:

- May be equipped with either Germanium or Sapphire window depending on application

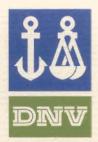
 May be equipped with either Infrared Thermometer CT18 Infrared Thermometer CT13 Infrared Thermometer KT15

- Temperature on sealing compound for window must not exceed 75°C

[2] Descriptive documents:

Number	Title	Rev.
2134800-02-3	TNXCD1301360W Ex d e	В
	Heitronics Camera housing	
Z5516314	EX-Schutz KT15	1
Z5516315	EX-Schutz CT18	1
Z5516309	Ex-Gehäuse Bartec	3
Z5516331	Ex-Schutz Gehäuse	1
Z5516334	EX-Gehäuse (Übersicht)	1
Z5516335	Klemmenbelegung	1
DNV-2004-OSL-ATEX-0115	Ex certificate TNXCC	

END OF ANNEX





DET NORSKE VERITAS EC-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTED SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC
- [3] EC-Type Examination Certificate Number:

DNV-2004-OSL-ATEX-0115

[4] Equipment or Protective System:

TNXCC Flameproof enclosure

[5] Applicant - Manufacturer or Authorized representative:

Technor AS

[6] Address:

Dusavikveien 39, P.O.Box 658, 4001 Stavanger

Norway

- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV, notified body number 0575 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no.: 2006-3024

- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 50014: 1997 + A1: 1999 + A2: 1999, EN 50018: 2000 + A1: 2002, EN 50019: 2002 and EN 50281-1-1: 1998 + A1: 2002
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.
- [12] The marking of the equipment or protective system shall include the following:



II 2 G/D EEx d IIC/IIB or EEx de IIC/IIB

Høvik, 2006-01-12 for Det Norske Veritas Certification AS

> Line Gangeskar Head of Section



Håkon S. Håkonsen Senior Engineer

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas' shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.







[13]

Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE No.: DNV-2004-OSL-ATEX-0115

[15] Description of Equipment or Protective System

TNXCC is a stainless steel flameproof enclosure with a cylindrical shape. TNXCC 100 can also be made of aluminium. The enclosure may be used with glass window, dome or stainless steel top sections.

The certification of the enclosure is based upon technical specifications in certificate for TNXCD, DNV-2003-OSL-ATEX-0436U.

Type Identification

TNXCC D - L (diameter and length of Ex d enclosure see table below)

Туре	Dimensions to be considered as the maximum size for the diameter of d/de enclosure, smaller dimentions are allowed	Dimensions to be considered as the maximum size for the length of d/de enclosure, smaller dimentions are allowed
TNXCC 100	101 mm	360 mm
TNXCC 130	132 mm	360 mm
TNXCC 195	196 mm	290 mm

Maximum ambient temperatures for the top sections that can be used

Top section	Temperature range
Dome R23	-50°C to +60°C
Up to Dome R69	-20°C to + 60°C
Glass window	-50°C to + 60°C
Stainless steel end cover	-50°C to +60°C

The ex-code will vary based on the components used. The flameproof enclosure may be equipped with cable glands, bushings, Ex-e components in the wall and intrinsically safe power supplies. A TNCN/TNCC/TNUP/TNUC or any other certified junction box may be used for indirect cable entry. This junction box may be equipped with Ex-d, e, m and ia/ib components. The Ex-code may vary as follows:

EEx	d	e	m	ia/ib	[ia/ib]	IIB/IIC	T6-T4	
								Temperature class measured on the flameproof enclosure, or based on components.
								Gas group IIC on the enclosure. May be IIB caused by components.
			100				A Transfer of	IS outputs from the Ex-d enclosure
								IS components in the Ex-e enclosure
	1			-1411				Moulded components in the Ex-e enclosure
			3					TNCN/TNCC Ex-e junction box, and components in this enclosure
								Flameproof enclosure, and components mounted on this enclosure and in the Ex-e junction box

If any person suffers loss or darmage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or darmage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

DET NORSKE VERITAS CERTIFICATION AS · VERITASVEIEN 1, 1363 HØVIK, NORWAY · TEL: (+47) 67 57 99 00 ZNWNO 5-420-ce-ATEX-F-6 Issue 1 Dated 2004-05-28





Routine Test(s)

The overpressure test was performed with 4 times reference pressure and the routine test is not necessary. Tested at 45.4 bar.

Electrical Data

- Max 1000 volt
- Temperature class will be based upon internal load, when Ex-i components are mounted temperature test to be performed or termostate to be mounted.

Degrees of protection (IP Code)

IP 66, IP 67 and IP 68 (0,5 bar 2 hours)

[16] Report No.: 2006-3024 Project No.: 42035265

Descriptive Documents

Number	Title	Rev.	Date
XCC-12-5	Label for TNXCC Atex certification	C	2004-08-24
XCC-13-5	Label for TNXCC / TNXAC Complete certificate	В	2004-08-24
XCC-19-4	General certification drawing TNXCC	A	2006-07-08
XCD-90-2	Arrangement drawing TNXCD 155 with internal arrangement	A	2005-10-20

[17] Special Conditions for Safe Use

For IIC enclosures not more than 60% of the cross-sectional area shall be used if not otherwise mentioned in descriptive documents. For IIA or IIB enclosures not more than 80% of the cross-sectional area shall be used if not otherwise mentioned in descriptive documents.

For dust applications (II 2 D) the following apply:

- The minimum IP rating of all external components must be IP6X.
- The maximum surface temperature shall be marked as a temperature value.
- Drawing no. XCD-54-4 listed in DNV-2003-OSL-ATEX-0436U is not applicable for dust applications, because surface area of the conical dome is larger than 400 cm² (According to EN 50281-1-1: 1998 + A1: 2002)

[18] Essential Health and Safety Requirements

See part 9 of this certificate

END OF CERTIFICATE



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DET NORSKE VERITAS **EC-Type Examination Certificate**

- [2] COMPONENT INTENDED FOR USE IN EQUIPMENT OR PROTECTED SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC
- EC-Type Examination Certificate Number: [3]

DNV-2003-OSL-ATEX-0436U

Component: [4]

TNXCD Flameproof enclosure

Applicant - Manufacturer or Authorized representative: [5]

Technor ASA

[6] Address: Dusavikveien 39, P.O.Box 658, 4001 Stavanger

Norway

- [7] This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- DNV, notified body number 0575 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, [8] certifies that this component has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no.:

- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 50014: 1997 + A1: 1999 + A2: 1999, EN 50018: 2000 + A1: 2002 and EN 50019: 2002
- The sign 'U' placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacturer and supply of this component.
- The marking of the equipment or protective system shall include the following:

H2G EEx d IIB or EEx de IIB

Høvik. 2005-07-20

for Det Norske Veritas Certification AS

Line Gangeskar

Head of Section

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Senior Engineer

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Schedule

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DNV-2003-OSL-ATEX-0436U

[15] Description of component

TNXCD is a stainless steel flameproof enclosure with a cylindrical shape For TNXAD 100 also aluminium. The enclosure may be used with glass window, dome or stainless steel top sections.

Type Identification

TNXAD 100

TNXCD D - L (diameter and length of Ex d enclosure see table below)

Type	Dimensions to be considered as the maximum size for the diameter of d/de enclosure, smaller dimentions are allowed	Dimensions to be considered as the maximum size for the length of d/de enclosure, smaller dimentions are allowed
TNXAD 100	101 mm	360 mm
TNXCD 100	101 mm	360 mm
TNXCD 130	132 mm	360 mm
TNXCD 195	196 mm	290 mm

Maximum ambient temperatures for the top sections that can be used

Top section	Temperature range	
Dome R23	-50°C to +60°C	
Dome R43	-20°C to + 60°C	
Dome R69	-20°C to + 60°C	
Glass window	-50°C to + 60°C	
Stainless steel end cover	-50°C to + 60°C	

Degrees of protection (IP Code) IP 66, IP 67 and IP 68 (0,5bar 2 hours)

[16] Report No.: 2004-3017 Project No.: #2035265



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DET NORSKE VERITAS CERTIFICATION AS





DNV-2003-OSL-ATEX-0436U

Descriptive Documents

Number	Title	Rev.	Date
XCD-19-4	Certification Drawing for TNXCD / AD	E	2005-06-22
	Main Enclosure EEx de/ d		
XCD-20-4	Certification Drawing for TNXCD / AD	E	2002-01-04
	Alternative bottom / top sections		
XCD-26-4	General arrangement drawing TNXCD/TNXAD	A	2000-11-10
XCD-33-5	Produksjonstegning for alternativ løsning TNXCD / AD	C	2001-01-25
XCD-37-5	TNXCD / AD connection to EEx e Enclosure	C	2001-01-25
XCD-38-5	TNXCD / AD connection to EEx e Enclosure type 2	C	2001-01-25
XCD-51-4	Detail drawing alternative enclosure TNXCD	A	2001-11-23
XCD-52-4	Alternative type EEx d tube	A	2001-11-23
XCD-53-5	Alternative bottom section TNXCD	A	2001-12-19
XCD-54-4	General arrangement drawing conical dome	A	2001-12-20
XCD-55-4	Ring with threads for conical dome	A	2002-01-04
	Ref. dwg, XCD-54-4	-	
XCD-81-5	Label for TNXCD ATEX certification	A	2004-05-27
XCD-82-5	Label for TNXCD/AD ATEX certification	A	2004-05-27
XCD-86-4	Certification drawing Lid with spigot joint TNXCD	В	2005-06-02
XCD-87-4	Certification drawing Adapter for spigot joint	В	2005-06-02

Routine Test(s)

The overpressure test was performed with 4 times reference pressure and the routine test is not necessary. Tested at 45,4 bar.

[17] Schedule of Limitations

The temperature on the cementing, glass window and dome must not exceed 90°C The temperature on the gasket of the EEx e enclosure must not exceed 60°C

[18] Essential Health and Safety Requirements

See part 9 of this certificate

END OF CERTIFICATE





SUPPLEMENT 1 to EC-TYPE EXAMINATION CERTIFICATE

EC-TYPE EXAMINATION CERTIFICATE No.: DNV-2003-OSL-ATEX-0436U

This EC-Type Examination Certificate is extended to include the following additional information:

The TNXCD flameproof enclosure has been tested as an empty enclosure according to the requirements for gas group IIC. An overpressure test was performed with 4 times reference pressure and the routine test is not necessary. Tested at 45,4 bar.

Report No.: 2004-3017 rev.02 Project No.: 42035265

Høvik, 2005-11-09 for Det Norske Veritas Certification AS

Line Gangeskar
Head of Section

END OF SUPPLEMENT



Håkon S. Håkonsen Senior Engineer

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