

# IECEx Certificate of Conformity

	INTERNATIONAL ELE	CTROTECHNICAL COMMI tem for Explosive Atmosp	SSION heres
	for rules and details of	the IECEx Scheme visit www.iecex.com	
Certificate No .:	IECEx PRE 15.0054X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2020-11-06		
Applicant:	BARTEC TECHNOR AS Vestre Svanholmen 24 4313 Sandnes PO box: 418, 4064 Stavanger Norway Norway		
Equipment:	TNHV2- High Voltage Junction Box		
Optional accessory:	Refer description		
Type of Protection:	Ex nA, eb, db , op pr		
Marking:	High voltage part: Ex nA IIC T3 Gc High voltage part with heater/thermostat/ High voltage part with Ex nA connection High voltage part with Ex nA connection The op pr protection may be replaced by is].	/switch module:Ex db eb nA IIC T3 Gc box for fiber: Ex nA op pr IIC T3 Gc box for fiber, heater and thermostat: Ex op is signals, and the Ex-code will ther	k db eb nA op pr IIC T3 Gc n be modified, and op pr replaced by [op
Approved for issue on behalf of the IECEx Certification Body:		Bjørn Spongsveen	
Position:		Certification Manager	
Signature: (for printed version)			
Date:			
<ol> <li>This certificate and</li> <li>This certificate is no</li> <li>The Status and auth</li> </ol>	schedule may only be reproduced in full. t transferable and remains the property of the issuin enticity of this certificate may be verified by visiting	g body. www.iecex.com or use of this QR Code.	
Certificate issue	d by:		
DNV GL Presafe Veritasveien 3 1363 Høvik Norway	e AS		DNV·GL



## IECEx Certificate of Conformity

Certificate No .: IECEx PRE 15.0054X Page 2 of 3 Date of issue: 2020-11-06 Issue No: 0 **BARTEC TECHNOR AS** Manufacturer: Vestre Svanholmen 24 4313 Sandnes PO box: 418, 4064 Stavanger Norway Additional manufacturing locations: 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 equipment 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 IEC 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n" Edition:4 IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation Edition:2 IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e" Edition:5.1 This Certificate does not indicate compliance with 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/PRE/ExTR19.0051/00

Quality Assessment Report:

NO/NEM/QAR07.0003/11



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### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The TNHV2 Junction box comprises a component certified Ex e enclosure with up to four(3 phase+N) high voltage connection facilities supported by ceramic insulators. Optionally, additional junction box is attached to the main enclosure for the connection of fiber optic cables. The method of connecting the enclosures together is described in the component certificate IECEx DNV 09.0005U

Optical fibre cable is not part of the assessment. Relevant requirements IEC 60079-28 shall be considered when choosing the optical fibre. The assessment to op pr covers only the provision made for fibre optic termination within enclosure. The optical source is not part of the assessment. This provision is intended to be used with Ex certified "op is" source, or as "op pr" when terminating according to the manufacturer's instructions.

The junction box may be equipped with optional components such as anti-condensation heater (Ex d), thermostat (Ex d), fuse (Ex d), low voltage terminals (Ex e) or switch (Ex d).

A cover made of Lexan 9030 is provided to cover the high voltage terminals to avoid direct contact uninsulated parts for the operator as the door is opened.

The size of the junction box may be in the range of (W/H/D) 90 cm x 125 cm x 40 cm up to 100cm x 200cm x 60 cm, with the layout of the internal connections as described in the manufacturer's documentation.

The TNHV2 has two configurations for internal mounting of components. The difference is the placement of HV terminals and cable clamps. 650A:

-50 °C ≤Ta≤ 60°C

-50 °C ≤Ta≤ 40°C,When Ex d switch module is used

-25 °C ≤Ta≤ 40°C,When Ex d control module is used

1000A:

#### -50 °C ≤Ta≤ 40°C -25 °C ≤Ta≤ 40°C,When Ex d control module is used

#### SPECIFIC CONDITIONS OF USE: YES as shown below:

- The cable & cable gland selected that shall be able to withstand a service temperature range of at least 100°C. Cable gland shall have at least IP66 to comply IP66 for the complete assembly.
- The cable through the cable glands shall be effectively clamped to prevent pulling from cable gland.
- Optical fiber shall comply with relevant industrial standards when used.
- The enclosure can be delivered with an additional Ex e enclosure as an option for splicing of optical fibre, according to the manufacturer's instructions. The marking must reflect this by adding "[op is]" or "op pr" in the Ex-code.