CUSTOMS UNION

Translated from Russian

CERTIFICATE OF CONFORMITY

EAC

№ TC **RU C-NL. AA87.B.00213**

Series RU № 0406123

CERTIFICATION BODY **Certification Body of Explosion-Proof and Mine Equipment (CB CCVE) of the Certification Centre of Explosion-proof and Mine Equipment (OOO "NANIO CCVE"), OAO Zavod ECOMASH, VUGI, Lyubertsy, Moscow region, 140004, Russia, Tel. /Fax: +7 (495) 558-81 41, +7 (495) 558 83 53 E-mail: ccve@ccve.ru. Accreditation Certificate № RA.RU.11AA87 issued on 20.07.2015 by the Federal Service for Accreditation.**

APPLICANT **Limited Liability Company "BARTEC Rus",**
LEGAL ADDRESS 8, Building 11, 3 Proezd Perova Polya, Moscow, 111141, Russia
DE FACTO ADDRESS office 401, business center Volkovskiy, Building. 1, 5A Volkovskoe shosse, Mytishchi, Moscow region, 141006, Russia
OGRN (Primary State Registration Number): 1107746415347.
Tel./Fax:++74956462410. E-mail: mail@bartec-russia.ru

MANUFACTURER **BARTEC NEDERLAND B.V., Boelewerf 25 2987 VD Ridderkerk, the Netherlands**

PRODUCT **Control-/distribution panels BARTEC types B…/C…/D…/E… with Ex-marking in accordance with the Schedule (see forms №№ 0277333, 0277334, 0277335). Serial production.**

TN VED TS code **8537 10 990 0**

MEETS THE REQUIREMENTS OF **The Technical Regulation of the Customs Union TR CU 012/2011 « On safety of equipment intended for use in explosive atmospheres»**

CERTIFICATE ISSUED ON THE BASIS OF **Assessment and Test Report No. 26.2016-T of 18.05.2016 prepared by the Testing Laboratory of explosion protected and mine equipment (TL CCVE) of the Certification Centre of Explosion-proof and Mine Equipment (OOO "NANIO CCVE") (RA.RU.21АК06 issued on 19.01.2016); Production Status Analysis Certificate No 44-A/16 of 12.04.2016 prepared by the Certification Body of Explosion-Proof and Mine Equipment (CB CCVE) of the Certification Centre of Explosion-proof and Mine Equipment (OOO "NANIO CCVE") (Accreditation Certificate № RA.RU.11AA87 issued on 20.07.2015).**

ADDITIONAL INFORMATION

The Certificate is valid with the Schedule on 3 sheets.
The storage conditions and the service life are specified in the operating documentation.

VALID FROM **20.05.2016** **TO** **20 .05.2021** **INCLUSIVE**

Stamp

Head (authorized person) of the certification body _____ (signature) **A.S. Zalogin** (initials, surname)

Expert (auditor) (experts (auditors)) _____ (signature) **S.V. Serov** (initials, surname)

SCHEDULE
TO CERTIFICATE OF CONFORMITY No.TC RU C-NL. AA87.B.00213 Sheet 1

Series RU № **0277333**

1. PURPOSE AND FIELD OF APPLICATION

Control-/distribution panels BARTEC of types B…/C…/D…/E… (hereinafter referred to as BARTEC control-/distribution panels) are intended for measuring of parameters, control and switching during the manufacturing processes.

The field of application are explosion hazard of the premises and outdoor installation of Zones 1, 2, 21, 22 in accordance with the Ex-marking, GOST IEC 60079-14-2011, prescribing the use of electrical equipment in explosive gas and dust atmospheres.

2. MAIN TECHNICAL DATA

2.1	Ex-marking* of BARTEC control-/distribution panels:	
	– type B…	1Ex d *** IIB T6…T3 Gb 1Ex d *** IIB+H2 T6…T3 Gb
	– type C…	1Ex d … IIC T6…T3 Gb
	– type D…	Ex t *** IIIA T80°C…T130°C Db Ex t *** IIIB T80°C…T130°C Db Ex t *** IIIC T80°C…T130°C Db
	– type E…	1Ex e *** IIB T6…T3 Gb 1Ex e *** IIC T6…T3 Gb
2.2	Ambient temperature range*, °C:	-55…+80
2.3	Degree of ingress protection according to GOST 14254-96:	IP 54, IP 55, IP 56, IP 65, IP 66, IP 67
2.4	Rated voltage ac/dc, V:	1000/ 1500
2.5	Maximum input current, A:	1000

* *– the types of protection specified in Ex-marking and ambient temperature range depend on component explosion-protected electrical equipment and Ex-components, with the types of explosion protection "d", "q", "i", "m", "p", "e", "op", being parts of BARTEC control-/distribution panels.*

2.6 The list of electrical equipment and Ex-components being parts of BARTEC control-/distribution panels.

Name	Type	Ex-marking	Comply with the requirements
Enclosure	KEL 92..	Ex e IIC Gb U; Ex tb IIIC Db U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012, ГОСТ Р МЭК 60079-31-2010
Enclosure	KEL 93..	Ex e IIC Gb U; Ex tb IIIC Db U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012, ГОСТ Р МЭК 60079-31-2010
Enclosure	KEL 94..	Ex e IIC Gb U; Ex tb IIIC Db U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012, ГОСТ Р МЭК 60079-31-2010
Terminal block	UK series UK 1.5N … UK 6N	Ex e II U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012
Terminal block	UK series UK 10N … UKH 95	Ex e II U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012
Terminal block	USLKG	Ex e II U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012
Terminal block	UT	Ex e II U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012
Terminal block	UTTB	Ex e II U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012
Terminal block	MBKK	Ex e II U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012
Terminal block	UKH 150	Ex e II U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012
Circuit breaker RCCB, RCBO	17-584M-****/*0**	Ex d e IIB/IIC Gb U Ex d e [ia] ib IIB/IIC Gb U	ГОСТ Р МЭК 60079-0-2011, ГОСТ IEC 60079-1-2011, ГОСТ Р МЭК 60079-7-2012 ГОСТ Р МЭК 60079-11-2010
Switch	8544/1.-.	Ex d e IIC U	ГОСТ Р МЭК 60079-0-2011, ГОСТ IEC 60079-1-2011, ГОСТ Р МЭК 60079-7-2012

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SCHEDULE
TO CERTIFICATE OF CONFORMITY No.TC RU C-NL. AA87.B.00213 Sheet 2
Series RU № **0277334**

Automation flap (with/without window)	GHG 610 14..	Ex e IIC Gb U; Ex tb IIIC Db U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012 ГОСТ Р МЭК 60079-31-2010
Ampermeter	8403/2.., 8405/2.	Ex e II U Ex e m II U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012 ГОСТ Р МЭК 60079-18-2012
Voltmeter	8404/2.	Ex e II U; Ex e m II U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012 ГОСТ Р МЭК 60079-18-2012
Bezels	8603/**	Ex e IIC Gb U; Ex tb IIIC Db U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012 ГОСТ Р МЭК 60079-31-2010
Cable glands	ESKE (S)(-L)(-e)(-i)-…(LT) (…), EMSKE (S) (-L) (-RDE) …(LT) (…) (EMV-Z), NMSKE (S) (-L) (-RDE) …(LT) (…)(EMV-Z), ESSKE (S)(-L)(-4)(-RDE) …(LT) (…)(EMV-Z), EX-KVM-.-..-…	1Ex e IIC Gb X Ex tb IIIC Db X	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012 ГОСТ Р МЭК 60079-31-2010
Plugs for cable glands	GHG 960 6107 * **** GHG 960 1944 * ****	1Ex e IIC Gb Ex tb IIIC Db	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012 ГОСТ Р МЭК 60079-31-2010
Breathing and Draining valves	ECD	Ex d IIC U / Ex e II U	ГОСТ Р МЭК 60079-0-2011, ГОСТ IEC 60079-1-2011 ГОСТ Р МЭК 60079-31-2010
Control and indication elements	M-0.. M-0603, M-0604, M-0605	Ex d IIC Gb U Ex e IIC Gb U	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012 ГОСТ IEC 60079-1-2011
Fibre optic converter	6GK…	[Ex op is Gb] IIC	ГОСТ Р МЭК 60079-0-2011, ГОСТ 31610.28-2012/IEC 60079-28:2006
Splice box	F.M00…	1Ex e op pr IIC T6 Gb	ГОСТ Р МЭК 60079-0-2011, ГОСТ Р МЭК 60079-7-2012 ГОСТ 31610.28-2012/IEC 60079-28:2006
Purge Controller	APEX 07-3711-…	1Ex d e ib [ia Ga px] IIC T4 Gb	ГОСТ Р МЭК 60079-0-2011, ГОСТ IEC 60079-1-2011 ГОСТ Р МЭК 60079-7-2012 ГОСТ Р МЭК 60079-11-2010

3. DESCRIPTION OF CONSTRUCTION AND EXPLOSION PROTECTION MEANS USED

BARTEC control-/distribution panels consist of one or several enclosures made of aluminum, stainless steel, sheet steel, carbon steel or black reinforced polyester, as applicable and depending on the type of protection. BARTEC control-/distribution panels can accommodate indicator lights and inspection windows as well as equipment for measuring, control and switching with the types of protection “d”, “q”, “i”, “m”, “p”, “e”, “op”. BARTEC control-/distribution panels can incorporate explosion protected electrical equipment and/or Ex-components, listed in 2.6, as well as other explosion protected electrical equipment and/or Ex-components certified in accordance with the requirements of TR CU 012/2011.

Field wiring connections of conductors and cables are made either direct by means of suitable certified cable entries or indirect using connection boxes certified in accordance with the requirements of TR CU 012/2011.

Explosion protection of BARTEC control-/distribution panels of types B…/C…/E… is ensured by fulfillment the requirements of GOST R IEC 60079-0-2011 Explosive atmospheres - Part 0: Equipment - General requirements, GOST IEC 60079-1-2011 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures «d», GOST IEC 60079-2-2011 Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure «p», GOST R IEC 60079-5-2012 Explosive atmospheres - Part 5: Equipment protection by powder filling «q», GOST R IEC 60079-7-2012 Explosive atmospheres. Part 7. Equipment protection by increased safety «e», GOST R IEC 60079-11-2010 Explosive atmospheres. Part 11: Equipment protection by intrinsic safety "i", GOST R IEC 60079-18-2012 Explosive atmospheres - Part 18: Equipment protection by encapsulation «m», GOST 31610.28-2012/ IEC 60079-28:2006 Explosive atmospheres - Part 28. Protection of equipment and transmission systems using optical radiation.

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SCHEDULE

TO CERTIFICATE OF CONFORMITY No.TC RU C-NL. AA87.B.00213 Sheet 3

Series RU № **0277335**

Combustible dust ignition protection of BARTEC control-/distribution panels of type D… is ensured by fulfillment the requirements of GOST R IEC 60079-0-2011, GOST IEC 60079-2-2011, GOST R IEC 60079-11-2010, GOST R IEC 60079-18-2012 and GOST R IEC 60079-31-2010 Explosive Atmospheres - Part 31: Equipment dust ignition protection by enclosure «t».

4. **MARKING**

The marking placed on BARTEC control-/distribution panels shall include the following information:

- mark or the name of the manufacturer;
- name of the product;
- sequential number of product according to the numbering system of the manufacturer and year of production;
- Ex-marking;
- special explosion protection mark;
- ambient temperature range;
- warnings in accordance with the operating instructions;
- name of certification center and certificate number and other information required by regulatory and technical documentation that the manufacturer must include in the marking.

Changes to the approved design BARTEC control-/distribution panels may only be made upon agreement of NANIO CCVE.

Surveillance audit – 2018., 2020.

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I confirm the correctness of the translation from Russian.
Translator of NANIO CCVE - A.S. Yaroslavtseva

I certify the signature of A.S. Yaroslavtseva.

General Director of NANIO CCVE