



# 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)

Certificate No.: IECEx CCVE 17.0005U

Issue No: 0

Certificate history:

Issue No. 0 (2017-11-20)

Status: **Current**

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Date of Issue: **2017-11-20**

Applicant: **ZAVOD GORELTEX Co. Ltd.**  
195176, Saint Petersburg, Revolutsii road, 18, lit.A  
**Russian Federation**

Equipment: **Control and indicating elements: RG... operating handles, PG... switches, KG... control buttons and LG... indicating lamps**

*Optional accessory:*

Type of Protection: **flameproof enclosure "d", protection by enclosure "t"**

Marking:

Ex db IIC Gb

Ex tb IIIC Db

IP66/IP67

*Approved for issue on behalf of the IECEx  
Certification Body:*

Alexander Zalogin

*Position:*

Head of NANIO CCVE

*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:

**NANIO CCVE**  
Zavod ECOMASH, VUGI Settlement  
Lyubertsy, Moscow region  
140004  
Russian Federation





# IECEX Certificate of Conformity

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Date of Issue: 2017-11-20 Page 2 of 3  
Manufacturer: ZAVOD GORELTEX Co. Ltd.  
197229, Saint Petersburg, Olgino, 1st Konnaya Lakhta str., 1  
Russian Federation

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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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:

[RU/CCVE/ExTR17.0007/00](#)

Quality Assessment Report:

[RU/CCVE/QAR16.0004/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Control and indicating elements: RG... operating handles, PG... switches, KG... control buttons and LG... indicating lamps are components intended to be mounted by means of a connection with a threaded joint on suitably certified enclosures with the type of explosion protection "flameproof enclosure "d" which may also have Ex-marking with the type of explosion protection "tb".

Refer to the Annex for the detailed description.

### SCHEDULE OF LIMITATIONS:

1. The parameters of the threaded joints between the control and indicating elements: RG... operating handles, PG... switches, KG... control buttons and LG... indicating lamps and equipment with the type of explosion protection "flameproof enclosure "d" shall comply with the requirements specified in clause 5.3 of IEC 60079-1:2014.
2. Installation and mounting of the control and indicating elements RG... operating handles, PG... switches, KG... control buttons and LG... indicating lamps shall be performed in accordance with the operating, safety and maintenance manual - LGSA.1.005.2017.

### SPECIFIC CONDITIONS OF USE: NO

### Annex:

[Annex\\_IECEX CCVE 17 0005U.pdf](#)

**NANIO CCVE**  
**Zavod ECOMASH, VUGI Settlement**  
**Lyubertsy, Moscow region**  
**140004**  
**Russian Federation**



**Annex to IECEx CCVE 17.0005U**

**Issue No. 0**

**Date: 2017-11-20**

Designation structure and main technical characteristics of control and indicating elements: RG... operating handles, PG... switches, KG... control buttons and LG... indicating lamps are given in the operating, safety and maintenance manual - LGSA.1.005.2017.

Ingress protection degree: IP66/IP67

Ambient temperature ( $T_{amb}$ ): minus 60 °C...+100 °C

Service temperature ( $T_s$ ): minus 60 °C...+130 °C

KG... control buttons are pressing or rotary actuating elements. Button with indication is a combined actuating and signaling element. In buttons a key for locking may be used. All control buttons are used with a contact block provided by manufacturer. Buttons may be used with options and accessories described in the operating, safety and maintenance manual.

LG... indicating lamps are used for indication. Color of lamp's indication is in accordance with the operating, safety and maintenance manual.

PG... switches are rotary actuating elements. All switches are applied with contact blocks provided by manufacturer. In switches a key for locking may be used. The operation diagram of the switches is in accordance with the operating, safety and maintenance manual.

RG... operating handles are used for control of electrical and non-electrical equipment installed in a flameproof enclosure. Handles may be applied with options and accessories described in the operating, safety and maintenance manual.

Types of devices:

Lamp type	Button type	Switch type	Handle type
LGV01...	KGV01...	PGVA...	RGV*01...
LGV03...	KGV05...	PGVAZ...	RGV*02...
	KGV06...		RGV*04...
	KGV07...		RGV*05...
	KGV09...		RGV*08...
	KGV11...		RGV*09...
	KGV12...		RGV*10...
			RGV*11...
			RGV*12...
			RGV*13...

\* - designation of switch handle material: N – stainless steel; «no designation» - aluminum.