



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 CCVE 19.0005X

Issue No: 0

Certificate history:

Issue No. 0 (2019-02-08)

Status: **Current**

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Date of Issue: **2019-02-08**

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

Equipment: **Control and signaling stations PG...series**

Optional accessory:

Type of Protection: **flameproof enclosures "d", increased safety "e", encapsulation "m", dust ignition protection by enclosure "t"**

Marking:

Ex db IIC T6...T5 Gb

Ex db eb mb IIC T6...T5 Gb

Ex tb IIIC T51°C...T100 °C Db

IP54/IP66/IP67

Approved for issue on behalf of the IECEx
Certification Body:

Alexander Zalogin

Position:

Head of CB 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](http://www.iecex.com).

Certificate issued by:

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





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Manufacturer: **"ZAVOD GORELTEX" Co. Ltd.**
193149, Novosaratovka township area, liter A, Vsevolzhsky district, Leningrad region
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 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 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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/ExTR19.0009/00](#)

Quality Assessment Report:

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

[RU/CCVE/QAR16.0004/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Control and signaling stations PG... series are used for warning by means of visual, audible, visual and audible signaling. Control and signaling stations are structurally made on the base of certified enclosures with type of protection "flameproof enclosure d".

Control and signaling stations PGS... series are intended for visual signaling in the rooms of industrial facilities, at open industrial sites and in other places where presence of explosive atmosphere is possible.

Model of the indicated series of stations: PGS-IT35 is used as a light display and information board.

Control and signaling stations PGSK... series are intended for visual and audible signaling in the rooms of industrial facilities, at open industrial sites and in other places where presence of explosive atmosphere is possible.

Control and signaling stations PGZ... series are intended for audible signaling in the rooms of industrial facilities, at open industrial sites and in other places where presence of explosive atmosphere is possible.

Control and signaling stations can be fed by electric circuit or power supply unit.

Technical characteristics of the products are given in annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Cable glands and other devices which can be installed on the control stations are subject to a separate certification as Ex-Equipment and they shall not invalidate the type of protection and IP degree of protection, and they shall comply with the connecting thread, its size and type of inserted cable. Unused entries shall be closed with blanking elements.

Annex:

[Annex IECEx CCVE 19.0005X.pdf](#)



Annex to IECEx CCVE 19.0005X

Issue No. 0

Structure of designation of control and signaling stations PG...series is given in the Operation, safety and maintenance manual LGSA.1.023.2018.

1. PGS-IT35... control and signaling station can be used as an information board for industrial purposes or in emergency warning systems.

Technical characteristics

Description of parameters	Value
Ex marking:	Ex db IIC T6 Gb Ex tb IIIC T75 °C Db
Maximum rated voltage:	230 VAC 36 VDC
Maximum power consumption:	2 A
Alternating current frequency, Hz:	50/60
Maximum ambient temperature range:	- 60 °C up to + 60 °C
Degree of protection (IEC 60529):	IP66/IP67

2. PGS-SIGNAL... signaling station is used for visual signaling in hazardous areas.

Technical characteristics

Description of parameters	Value
Ex marking:	Ex db IIC T6 Gb Ex tb IIIC T80 °C Db
Maximum rated voltage:	230 VAC 85 VDC
Maximum power and type of used lamps:	14LED
Maximum ambient temperature range:	- 60 °C up to + 60 °C
Degree of protection (IEC 60529):	IP66

3. PGS-VSPYSHKA ... signaling station is used for visual signaling in hazardous areas.

Technical characteristics

Description of parameters	Value
Ex marking:	Ex db IIC T6 Gb Ex tb IIIC T80 °C Db
Maximum rated voltage:	230 VAC 85 VDC
Maximum power and type of used lamps:	14LED, 20Xenon
Maximum ambient temperature range:	- 60 °C up to + 60 °C
Degree of protection (IEC 60529):	IP66

4. PGSK01... visual and audible signaling station is used for visual and audible signaling in hazardous areas. Various certified sirens can be included into product structure.

Technical characteristics

Description of parameters	Value
Ex marking:	Ex db eb mb IIC T6 Gb Ex tb IIIC T80 °C Db
Maximum rated voltage:	230 VAC 85 VDC
Maximum power and type of used lamps:	14LED; 0.5Xenon
Maximum ambient temperature range:	- 60 °C up to + 60 °C
Degree of protection (IEC 60529):	IP54/IP66

5. PGSK02... visual and audible signaling station is a warning device of signaling purpose. Various certified sirens can be included into product structure.

Technical characteristics

Description of parameters	Value
Ex marking:	Ex db eb mb IIC T6...T5 Gb Ex tb IIIC T51 °C... T100 °C Db
Maximum rated voltage:	230 VAC 36 VDC
Maximum power consumption:	16 A
Maximum ambient temperature range:	- 60 °C up to + 60 °C
Degree of protection (IEC 60529):	IP54/IP66/IP67

6. PGSK03... visual and audible signaling station is used for visual and audible signaling. Various certified sirens can be included into product structure.

Technical characteristics

Description of parameters	Value
Ex marking:	Ex db eb mb IIC T6 Gb Ex tb IIIC T75 °C Db
Maximum rated voltage:	230 VAC 36 VDC
Maximum power consumption:	2 A
Maximum ambient temperature range:	- 60 °C up to + 60 °C
Degree of protection (IEC 60529):	IP54/IP66/IP67

7. PGSK04... visual and audible signaling station is used as an information board, for visual and audible signaling.

Technical characteristics

Description of parameters	Value
Ex marking:	Ex db eb mb IIC T6 Gb Ex tb IIIC T75 °C Db
Maximum rated voltage:	230 VAC 36 VDC
Maximum power consumption:	2 A
Maximum ambient temperature range:	- 60 °C up to + 60 °C
Degree of protection (IEC 60529):	IP54/IP66/IP67

8. PGZ-SIRENA2... audible signaling station is intended for audible signaling.

Technical characteristics

Description of parameters	Value
Ex marking:	Ex db eb mb IIC T6... T5 Gb Ex tb IIIC T51 °C... T100 °C Db
Maximum rated voltage:	230 VAC 36 VDC
Maximum power consumption:	2 A
Maximum ambient temperature range:	- 60 °C up to + 85 °C
Degree of protection (IEC 60529):	IP54/IP66/IP67

Indicated values of technical characteristics are maximum values. Actual values of technical characteristics will depend on the installed equipment and on the operating temperature of the equipment. Actual characteristics are specified by the manufacturer on the nameplate of the product. Actual characteristics cannot exceed values specified in the table above.

All equipment can have additional designation “QFM...” or “UVG...” in accordance with “ZAVOD GORELTEX” Co. Ltd. classifier.