1. # EU-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially explosive atmospheres**
Directive 2014/34/EU

3. EU-Type Examination Certificate Number: **EESF 19 ATEX 053X**

4. Product: **Control and command stations**

   Certified types: **PKIE…**

5. Manufacturer: **ZAVOD GORELTEX Co. Ltd.**

6. Address: **195176, Saint Petersburg, Revolutsii road, 18, lit. A**

   Russian Federation

7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Eurofins Expert Services Oy, Notified Body number 0537, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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. RU/CCVE/ExTR19.0004/00.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

   EN 60079-0:2012/A11:2013 **EN 60079-1:2014** **EN IEC 60079-7:2015/A1:2018**
   EN 60079-18:2015/A1:2017 **EN 60079-31:2014**

10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:

II 2 G Ex db eb IIC T6…T4 Gb
II 2 G Ex eb mb IIC T6…T4 Gb
II 2 G Ex db eb mb IIC T6…T4 Gb
II 2 D Ex tb IIIC T85 ˚C…T135 ˚C Db
IP54/IP66

Espoo, 14.10.2019
Eurofins Expert Services Oy

Tony Myllylä
Expert

Ilkka Riihimäki
Expert

This document is digitally signed.

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13. **Schedule**

14. **EU-Type Examination Certificate EESF 19 ATEX 053X**

15. **Description of Product**

Equipment and systems covered by this certificate are as follows:

Control and command stations PKIE… series can be used as control and indication devices, for control of various electrical equipment.

Control and command stations PKIE… series can be stationary or portable equipment depending on the field of application.

Control and command stations PKIE… series are made on the base of certified enclosures made of aluminum alloy (PKIE…), stainless steel (PKIE-N…) and mild steel (PKIE-M…). Control and command stations PKIE… series are made on the basis of certified enclosures with or without windows.

The housing and the cover may have entries for the installation of cable glands and Ex-components.

Structure of designation, technical characteristics, dimension types and temperature class of control and command stations PKIE… series are specified in the operating, safety and maintenance manual LGSA.1.022.2019.

Various certified electrical devices of corresponding type of explosion protection and IP degree of protection can be included into the structure of control and command stations PKIE… series.

Ambient temperature range and other additional information is given in the Annex.

16. **Report Number**

RU/CCVE/ExTR19.0004/00

17. **Specific Conditions of Use**

1. Cable glands and other devices which can be installed are subject to a separate certification as Ex-equipment and they shall not invalidate the type of protection and IP degree of protection and shall correspond to connecting thread, its size and type of inserted cable.

2. Control and command stations PKIE-N… series with windows were tested with low level of mechanical impact.

18. **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

19. **Drawings and Documents**

Drawings and documents are listed in the confidential report RU/CCVE/ExTR19.0004/00.

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Annex

Structure of designation of control and command stations PKIE… series

X1X2X3 – X4 – X5X6 … X5X6 – X7X8(X9) – X7X8(X9) / X10, where

«X1» – product name: PKIE;

«X2» – material: no mark – aluminum alloy; «-N» – stainless steel; «-M» - mild steel;

«X3» – code of size of product's enclosure (refer to table 2);

«X4» – code of window size (for products with window, refer to table 3);

«X5» – number of control element (if any);

«X6» – type of control element (if any);

«X7» – number of cable glands (if any);

«X8» – type of cable gland (if any);

«X9» – side of cable gland location (if any);

«X10» - options, accessories and versions, (if any, in accordance with the operating, safety and maintenance manual LGSA.1.022.2019);

The equipment can have additional designation "QFM…" or "UVG…" in accordance with "ZAVOD GORELTEX" Co. Ltd. classifier.

Table 1 – Technical characteristics

Description of parameters	Value
Ex marking	Ⓔx II 2 G Ex db eb IIC T6…T4 Gb Ⓔx II 2 G Ex eb mb IIC T6…T4 Gb Ⓔx II 2 G Ex db eb mb IIC T6…T4 Gb Ⓔx II 2 D Ex tb IIIC T85 ˚C…T135 ˚C Db
Maximum voltage	1100 VAC/400 VDC
Maximum current	291 A
Maximum ambient temperature range	- 60 °C up to + 85°C*
Degree of protection (EN 60529)	IP54/IP66

* Minimum minus and maximum plus values of ambient temperature range for all control and command station are set by the manufacturer with consideration of the service temperature of applied components.

Maximum technical characteristics and all possible explosion protection markings are given in the table 1. Actual values and selection of explosion protection marking depend on the configuration of the control and command station: installed control and indication elements and terminals depending on the rated current in accordance with the operating, safety and maintenance manual LGSA.1.022.2019.

The technical characteristics of the terminals permitted for installation is given the operating, safety and maintenance manual LGSA.1.022.2019.
Separately certified cable glands and plugs as Ex-equipment can be used provided that they do not invalidate the type of protection, IP degree of protection and have the appropriate connection.
Maximum number of control and indication elements is in accordance with the drilling area of the enclosure of control and command station and minimum distances between components.

Table 2 – Dimension types of control and command stations enclosures in accordance with the certificate EESF 19 ATEX 012U Issue 1.

KSRV…	KSRV-N…	KSRV-M…
111109	111109	111109
141410	151512	151512
171109	171109	171109
202012	202012	202012
301410	231815	231815
302314	232315	232315
342421	303012	303012
513321	322312	322312
663221	342315	342315
626221	343415	343415
	402315	402315
	453415	453415
	534315	534315
	606025	606025
	806030	806030
	1008030	1008030

Table 3 – Codes of window sizes

Code of window size
O0808
O1508
O1515
O2515
O2525
O3725
O3737

Table 4 – Ex Components used for control, indication and sound alarm produced by ZAVOD GORELTEX Co. Ltd. permitted for installation:

Name of Ex Component	Certificate Number	Service temperature range
KG… control buttons	EESF 19 ATEX 026U	-40 ˚C… +85 ˚C
PG… switches		
LG… indicating lamps		-55 ˚C… +85 ˚C
PTC… potentiometers		-40 ˚C… +85 ˚C
PSG… sirens		-60 ˚C… +85 ˚C