

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 21 ATEX 021X**
4. Product: **Process Gas Analyzer**
Certified types: **"HygroScan-S" KC 50.591-000**
5. Manufacturer: **OOO NTF BACS**
6. Address: **Prospekt Kirova 10, 443022 Samara, Russian Federation**
Additional manufacturing locations:
Prospekt Kirova 22, 443022 Samara, 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/ExTR20.0010/00.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014
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 2G Ex db IIC T6 Gb

 Espoo, 25.08.2021
Eurofins Expert Services Oy

 Tony Myllylä
 Senior Expert

 Jenni Hirvelä
 Senior Expert

This document is digitally signed.



13. **Schedule**

14. **EU-Type Examination Certificate EESF 21 ATEX 021X**

15. **Description of Product**

Process Gas analyzer "HygroScan-S" KC 50.591-000 is designed to automatically measure the dew point temperature (DPT) in gas media and calculate the mass concentration of moisture.

Process Gas analyzer "HygroScan-S" KC 50.591-000 is made in the form of a single unit, in which all parts of the analyzer are enclosed in an explosion-proof housing of the "Ex d" type, it also consists of separately certified cable glands, plugs, ventilation devices. The analyzer is designed for continuous automatic operation. The measurement results are displayed on the built-in display and can be transmitted to external devices via communication interfaces. At the same time, an archive of measurement results, a log of events and interventions is saved in the analyzer's memory.

Rated ambient temperature range (°C): $-40\text{ °C} \leq T_a \leq +50\text{ °C}$.

The equipment has been separately tested against the requirements of IEC 60529 and it meets IP66.

Components covered by separate Ex Certificates:

"ZAVOD GORELTEX" Co. Ltd.; Drain plug "VKU"; IECEX CCVE 18.0014X / EESF 19 ATEX 025X

"ZAVOD GORELTEX" Co. Ltd.; Plug "VZN"; IECEX CCVE 18.0014X / EESF 19 ATEX 025X

"ZAVOD GORELTEX" Co. Ltd.; Cable Gland "KOV"; IECEX CCVE 17.0004X / EESF 19 ATEX 023X

"ZAVOD GORELTEX" Co. Ltd.; Ex-proof Box KKVA; IECEX CCVE 16.0008U, IECEX CCVE 18.0008X, IECEX CCVE 18.0009X / EESF 18 ATEX 068U, EESF 18 ATEX 069X

WAROM Technology Incorporated Company; Drain plug "BPS(H)"; IECEX CQM 13.0035U / DNV 13 ATEX 2631U

WAROM Technology Incorporated Company; Plug "BPT"; IECEX LCIE 15.0070U

WAROM Technology Incorporated Company; DQM-II Series cable gland; IECEX LCI 08.0011X

FEAM; Plug "PLG"; IECEX INE 16.0014X / INERIS 16 ATEX 0007X

FEAM; Cable glands type "PAP"; IECEX INE 11.0017X / INERIS 09 ATEX0028X

FEAM; Drain plug "ECD", type "V"; IECEX EXA 14.0004U / EXA 14 ATEX 0059U

FEAM; Ex-proof Box "GUBW-03"; IECEX INE 13.0069X, IECEX INE 13.0082U / INERIS 13 ATEX 0021X, INERIS 13 ATEX 9018U

16. **Report Number**

RU/CCVE/ExTR20.0010/00

17. **Specific Conditions of Use**

The flamepaths are not intended to be repaired.

«WARNING - AFTER SWITCHING OFF DO NOT OPEN FOR 15 MINUTES»

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.