

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 048**
4. Product: **Process Gas Analyzers**
Certified types: **KC 50.260-000, KC 50.250-000 and KC 50.250-000-01**
5. Manufacturer: **OOO NTF BACS**
6. Address: **Prospekt Kirova 10, 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/ExTR19.0011/00.
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**
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
IP65**

Espoo, 27.6.2019
Eurofins Expert Services Oy

Kari Koskela
Expert

Jenni Hirvelä
Expert

This document is digitally signed.



13. **Schedule**

14. **EU-Type Examination Certificate EESF 19 ATEX 048**

15. **Description of Product**

The following models of Process Gas Analyzers were considered:

- Oxygen Process Gas Analyzer AnOx model KC 50.260-000;
- Odorant Process Gas Analyzer AnOd model KC 50.250-000 and transmitter model KC 50.250-000-01.

Oxygen Process Gas Analyzer AnOx model KC 50.260-000 is designed to measure the oxygen content in a gaseous medium, including natural gas, and transmit data to external devices.

Odorant Process Gas Analyzer AnOd model KC 50.250-000 and transmitter model KC 50.250-000-01 are designed to measure the degree of odorization (mass concentration of mercaptans) in a gaseous environment, including natural gas, and data transfer to external devices.

The Process Gas Analyzer consists of a base Ex certified enclosure with the type of protection “flameproof enclosures “d” in which the electronics is built. The enclosure is provided with Ex certified cable glands. The input of gas lines into the enclosure is performed via gas input devices built in the walls of the enclosure.

The pressure inside the enclosure shall not exceed the atmospheric pressure. To equalize pressure, an Ex certified relief device is installed, which releases excess pressure in case of depressurization of gas paths. An absolute pressure sensor is also installed inside the enclosure, which measures the pressure inside the enclosure. If the pressure value is above 110 kPa, the power supply of the Process Gas Analyzers is switched off.

Unused entries shall be plugged with plugs, specified in the manufacturer's documentation.

The detailed description and characteristics of the Process Gas Analyzers are given in the Operating Manuals KC 50.250-000 RE, KC 50.260-000 RE, KC 50.250-000-01 RE.

Main technical characteristics:

Technical characteristics	Process Gas Analyzers models		
	KC 50.260-000	KC 50.250-000	KC 50.250-000-01
Supply voltage, V	(230±10%) V AC at (50±1) Hz		24 V DC
Power consumption, W:			
at the warm-up	90		15
after the warm-up	30		
Reference gas pressure, MPa	0,1±0,05	0,2...1,2	0,1±0,05
Reference gas flow rate, ml/min	300–1000	50–150	50–150
Ambient temperature range	-20°C ≤ Ta ≤ +50°C	+5°C ≤ Ta ≤ +50°C, -40°C ≤ Ta ≤ +50°C*	+5°C ≤ Ta ≤ +50°C

* - when using a heated gas inlet

16. **Report Number**

RU/CCVE/ExTR19.0011/00

17. **Specific Conditions of Use**

None

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.