



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx CCVE 20.0001X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2020-12-08  
Applicant: **OOO NTF BACS**  
Prospekt Kirova 10, 443022 Samara  
**Russian Federation**  
Equipment: **Process Gas Analyzer of the models "HygroScan-T PRO" KC 50.593-000,"HygroScan-T Light" KC 50.594-000**  
Optional accessory:  
Type of Protection: **flameproof enclosures "d"**  
Marking: **Ex db IIC T6 Gb**

Approved for issue on behalf of the IECEx  
Certification Body:

**Aleksey Kogan**

Position:

**Deputy head of CB CCVE**

Signature:  
(for printed version)

Date:

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





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Manufacturer: **OOO NTF BACS**  
Prospekt Kirova 10, 443022 Samara  
**Russian Federation**

Additional manufacturing locations: **OOO NTF BACS**  
Prospekt Kirova 22, 443022 Samara  
**Russian Federation**

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

This Certificate **does not** indicate compliance with 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/ExTR20.0011/00](#)

Quality Assessment Report:

[RU/CCVE/QAR18.0001/01](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The following models of process gas analyzers were considered: "HygroScan-T PRO" KC 50.593-000, "HygroScan-T Light" KC 50.594-000. Process Gas Analyzers of HygroScan models are designed to automatically measure the dew point temperature (DPT) in gas media and calculate the mass concentration of moisture.

Process Gas Analyzers of HygroScan models differ in design and include an analytical unit and an electronics unit. The analytical unit includes a measuring cell, consisting of converters (sensors) of humidity, temperature, pressure (depending on the version) and a primary conversion board.

Process Gas Analyzers model "HygroScan-T Light" is an industrial analyzer consisting of two enclosures of the "Ex d" type, it also consists of separately certified cable glands, plugs, where a simplified electronics unit without a display and controls and an analytical unit are located separately.

Process Gas analyzers model "HygroScan-T PRO" is an industrial analyzer consisting of two enclosures of the "Ex d" type, it also consists of separately certified cable glands, plugs, in which the electronics unit with a display and the analytical unit are separately located.

The electronics unit calculates the dew point temperature, including recalculating the dew point to the contractual pressure value and calculating the mass concentration of moisture, storing and transmitting data to control systems, displaying the measurement results on the display (depending on the model).

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

Rated ambient temperature range (°C):

HydroScan-T Light:  $-10\text{ °C} \leq T_a \leq +50\text{ °C}$

HydroScan-T PRO:  $-40\text{ °C} \leq T_a \leq +50\text{ °C}$

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The flamepaths are not intended to be repaired
2. «WARNING - AFTER SWITCHING OFF DO NOT OPEN FOR 15 MINUTES»

Components covered by Ex Certificates issued to older editions of Standards - see Annex.

## Annex:

[IECEx CCVE 20.0001X annex.pdf](#)



**Components covered by Ex Certificates issued to older editions of Standards**

“HygroScan -T PRO” KC 50.593-000

<b>Certificate number</b>	<b>Standards (incl Ed)</b>	<b>Assessment result</b>
IECEX CCVE 17.0004X	IEC 60079-0 (Ed.6.0) (2011) IEC 60079-1 (Ed.7.0) (2014) IEC 60079-15 (Ed.4.0) (2010) IEC 60079-31 (Ed.2.0) (2013) IEC 60079-7 (Ed.5.0) (2015)	No applicable technical differences
IECEX LCI 08.0011X	IEC 60079-0 (Ed.6.0) (2011) IEC 60079-1 (Ed.6.0) (2007) IEC 60079-31 (Ed.1.0) (2008) IEC 60079-7 (Ed.4.0) (2006)	No applicable technical differences
IECEX INE 11.0017X	IEC 60079-0 (Ed.6.0) (2011) IEC 60079-1 (Ed.6.0) (2007) IEC 60079-31 (Ed.2.0) (2013) IEC 60079-7 (Ed.4.0) (2006)	No applicable technical differences
IECEX FTZU 10.0019U	IEC 60079-0 (Ed.7.0) (2017) IEC 60079-1 (Ed.7.0) (2014) IEC 60079-31 (Ed.2.0) (2013)	No applicable technical differences

“HygroScan -T Light” KC 50.594-000

<b>Certificate number</b>	<b>Standards (incl Ed)</b>	<b>Assessment result</b>
IECEX CCVE 17.0004X	IEC 60079-0 (Ed.6.0) (2011) IEC 60079-1 (Ed.7.0) (2014) IEC 60079-15 (Ed.4.0) (2010) IEC 60079-31 (Ed.2.0) (2013) IEC 60079-7 (Ed.5.0) (2015)	No applicable technical differences
IECEX CCVE 16.0008U	IEC 60079-0 (Ed.6.0) (2011) IEC 60079-1 (Ed.7.0) (2014) IEC 60079-31 (Ed.2.0) (2013)	No applicable technical differences
IECEX CCVE 18.0008X	IEC 60079-0 (Ed.6.0) (2011) IEC 60079-1 (Ed.7.0) (2014) IEC 60079-31 (Ed.2.0) (2013)	No applicable technical differences
IECEX CCVE 18.0009X	IEC 60079-0 (Ed.6.0) (2011) IEC 60079-1 (Ed.7.0) (2014) IEC 60079-31 (Ed.2.0) (2013)	No applicable technical differences
IECEX CCVE 18.0014X	IEC 60079-0 (Ed.6.0) (2011) IEC 60079-1 (Ed.7.0) (2014)	No applicable technical differences

	IEC 60079-15 (Ed.4.0) (2010) IEC 60079-31 (Ed.2.0) (2013) IEC 60079-7 (Ed.5.0) (2015)	
IECEX LCI 08.0011X	IEC 60079-0 (Ed.6.0) (2011) IEC 60079-1 (Ed.6.0) (2007) IEC 60079-31 (Ed.1.0) (2008) IEC 60079-7 (Ed.4.0) (2006)	No applicable technical differences
IECEX INE 11.0017X	IEC 60079-0 (Ed.6.0) (2011) IEC 60079-1 (Ed.6.0) (2007) IEC 60079-31 (Ed.2.0) (2013) IEC 60079-7 (Ed.4.0) (2006)	No applicable technical differences
IECEX FTZU 10.0019U	IEC 60079-0 (Ed.7.0) (2017) IEC 60079-1 (Ed.7.0) (2014) IEC 60079-31 (Ed.2.0) (2013)	No applicable technical differences