6

Translation

Address:

EU-Type Examination Certificate Supplement 1

Change to Directive 2014/34/EU

- Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU
- 3 EU-Type Examination Certificate Number: BVS 08 ATEX E 121 X
- 4 Product: Level Measuring System type NivoBob NB 3x00
- **UWT GmbH** 5 Manufacturer:
- This supplementary certificate extends EC-Type Examination Certificate No. BVS 08 ATEX E 121 X to apply to products designed and constructed in accordance with the specification set out in the

Westendstraße 5, 87488 Betzigau, Germany

appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

8 DEKRA Testing and Certification GmbH, Notified Body number 0158, 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 the confidential Report No. BVS PP 08.2192 EU

The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018 General requirements Protection by Enclosure "t" EN 60079-31:2014

- 10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix 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 1/2D Ex ta/tb IIIC T* Da/Db

DEKRA Testing and Certification GmbH Bochum, 2021-01-19

Signed: Jörg-Timm Kilisch

Managing Director



- 13 Appendix
- 14 EU-Type Examination Certificate

BVS 08 ATEX E 121 X Supplement 1

- 15 Product description
- 15.1 Subject and type

The Level Measuring System type NivoBob NB 3x00

- NB 3100 rope version
- NB 3200 tape version
- NB 3300 rope version for interface measurement
- NB 3400 tape version for interface measurement

15.2 Description

The Level detector type NivoBob NB3x00 is a multifunctional unit for discontinuous level monitoring of any inflammable solid and bulky goods and interface levels.

It consists of a two-part aluminium housing (electronic compartment and separated process compartment), wherein the process chamber with internal mechanical components conforms to EPL Da whereas the electronic chamber with electrical components conforms to EPL Db. The heating can be built in into the electronic chamber as an option.

With this supplement the certificate is changed to Directive 2014/34/EU.

(Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination
Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU
(20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU.
Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

Reasons for the supplement:

- Change to Directive 2014/34/EU
- Updating to the current standards
- Implementation of technically equivalent enclosure made from new tooling
- Implementation of a "Special conditions for use"

15.3 Parameters

15.3.1 Electrical data

15.3.1.1 Supply circuit

Rated voltage AC 98.up to 253 V (incl. 10% of EN61010)

Frequency 50 / 60 Hz

or DC 20 up to 28 V (incl. 10% of EN61010)

Power consumption (without heater) max. 70 VA

15.3.1.2 Heating circuit

Power consumption of the heater max. 80 W



15.3.1.3 Output

Current output 0/4 up to 20 mA; max. load 500 Ω

Relay contacts (up to 4 SPST)

Maximum contact rating AC 250 V / max. 2 A; 500 VA

Electronic counting pulse Optocoupler

max. DC 30 V, max. 25 mA max. DC 30 V, max. 25 mA

Communication Modbus RTU Communication Profibus DP

15.3.2 Thermal data

Maximum surface temperature T at the electronic compartment (EPL Db) with thermo fuse limited to 128 °C

Housing with integrated process connection

Ambient temperature range * without / with heating	Permitted process temperature	Max. surface temperature T (EPL Da)	Max. surface temperature T (EPL Db)
- 20 °C / - 40 °C+ 60 °C	- 40 °C + 80 °C	130 °C	////130°C//////
- 20 °C / - 40 °C+ 40 °C	- 40 °C + 90 °C	130 °C	////130°C/////
- 20 °C / - 40 °C+ 40 °C	- 40 °C + 100 °C	130 °C	130°C/////
- 20 °C / - 40 °C+ 40 °C	- 40 °C + 110 °C	130 °C	130°C
- 20 °C / - 40 °C+ 40 °C	- 40 °C + 120 °C	130 °C	130 °C
- 20 °C / - 40 °C+ 40 °C	- 40 °C + 130 °C	130 °C	130 °C
- 20 °C / - 40 °C+ 40 °C	- 40 °C + 135 °C	135 °C	130 °C
- 20 °C / - 40 °C+ 40 °C	- 40 °C + 140 °C	140 °C	130 °C
- 20 °C / - 40 °C+ 40 °C	-40 °C + 150 °C	150 °C	130 °C

Housing including temperature extension

Ambient temperature	Permitted process	Max. surface	Max. surface
range *	temperature	temperature T	temperature T
without / with heating		(EPL Da)	(EPL Db)
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 80 °C	130 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 130 °C	130 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 135 °C	135 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 140 °C	140 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 150 °C	150 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 160°C	160 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 165°C	165 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 170 °C	170 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 180 °C	180 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 190 °C	190 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 200 °C	200 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 210 °C	210 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 215 °C	215 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 220 °C	220 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 230 °C	230 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 240 °C	240 °C	130 °C
- 20 °C / - 40 °C+ 60 °C	- 40 °C+ 250 °C	250 °C	130 °C

^{*} depending on the used cable gland the permitted ambient temperature range can be limited.

15.3.3 Degree of protection according to EN 60529

IP 66



16 Report Number

BVS PP 08.2192 EU, as of 2021-01-19

17 Special Conditions for Use

The apparatus shall be installed in a way that danger caused by electrostatic charges is avoided.

18 Essential Health and Safety Requirements

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

19 Drawings and Documents

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.

In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH Bochum, 2021-01-19 BVS-Hk/Ar A20201190

Managing Director

