



Translation

EC-Type Examination Certificate

(1)

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(2)

**- Directive 94/9/EC -
Equipment and protective systems intended for use
in potentially explosive atmospheres**

(3)

BVS 10 ATEX E 022

(4)

Equipment: Level Measuring System type Nivobob NB 4x00*****

(5)

Manufacturer: UWT GmbH

(6)

Address: 87488 Betzigau, Germany

(7)

The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.

(8)

The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the test and assessment report BVS PP 10.2120 EG.

(9)

The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2006 General requirements
IEC 60079-31:2008 Protection by enclosures

(10)

If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.

(11)

This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC.

Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12)

The marking of the equipment shall include the following:



II 1/2D Ex t IIC IP66 T* Da/Db

* see manual

DEKRA EXAM GmbH

Bochum, dated 28 April 2010

Signed: Hans Christian Simanski

Signed: Dr. Franz Eickhoff

Certification body

Special services unit

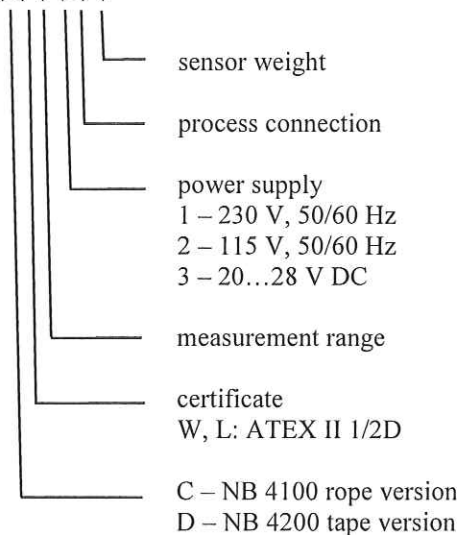
(13) Appendix to

(14) **EC-Type Examination Certificate**

BVS 10 ATEX E 022

(15) 15.1 Subject and type

Level Measuring System type
Nivobob NB 4x00* * * * *



15.2 Description

The Level detector type Nivobob NB 4x00***** 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 is conform to category 1D, whereas the electronic chamber with electrical components is conform to category 2D. The heating can be optionally built in into the electronic chamber.

15.3 Parameters

15.3.1	Electrical data	
15.3.1.1	Supply circuit rated voltage	AC 115 V or 230 V +10% / -15% (incl. 10% of EN61010)
	frequency	50 / 60 Hz
	or	DC 20... 28 V (incl. 10% of EN61010)
	Power consumption (without heater)	max. 100 VA oder – or 100 W
15.3.1.2	Heating circuit Power consumption of the heater	max. 80 W
15.3.1.3	Output current output	0/4...20 mA; max. Last – load 500 Ω
	Relay contacts (max. 2 relays) Maximum contact rating	AC 250 V / max. 2 A; 500 VA
15.3.2	Thermal data Maximum surface temperature T at the electronic compartment (category 2D) with thermo fuse limited to	117 °C

ambient temperature range *	permitted process temperature	max. surface temperature T
-20 °C / -40 °C...+60 °C	-40 °C... + 80 °C	117 °C
-20 °C / -40 °C...+50 °C	-40 °C... + 90 °C	117 °C
-20 °C / -40 °C...+40 °C	-40 °C... +100 °C	117 °C
-20 °C / -40 °C...+40 °C	-40 °C... +110 °C	117 °C
-20 °C / -40 °C...+40 °C	-40 °C... +120 °C	120 °C
-20 °C / -40 °C...+40 °C	-40 °C... +130 °C	130 °C
-20 °C / -40 °C...+40 °C	-40 °C... +135 °C	135 °C
-20 °C / -40 °C...+40 °C	-40 °C... +140 °C	140 °C
-20 °C / -40 °C...+40 °C	-40 °C... +150 °C	150 °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
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(16) Test and assessment report

BVS PP 10.2120 EG as of 28.04.2010


(17) Special conditions for safe use

None

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.

44809 Bochum, 28.04.2010
BVS-Hk/Her A 20091043

DEKRA EXAM GmbH



Certification body



Special services unit