



Translation

(1) **EU-Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**

(3) **Certificate Number** TÜV 21 ATEX 307715 X **Issue:** 01

(4) for the product: Autarkic Radar Sensor VEGAPULS Air 23 resp. VEGAPULS Air 42

(5) of the manufacturer: **VEGA Grieshaber KG**

(6) Address: Am Hohenstein 113
77761 Schiltach
Germany

Order number: 8003057957
Date of issue: See date of signature

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 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 ATEX Assessment Report No. 23 203 347523.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018/AC:2020-02 EN IEC 60079-7:2015/A1:2018 EN 60079-31:2014
except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for 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 equipment. These are not covered by this certificate.

(12) The marking of the product shall include the following:

 **II 3 G Ex ec II6 T6...T1 Gc or**
II 2 D Ex tb IIIC T135°C Db or
II 3 D Ex tc IIIC T135°C Dc

TÜV NORD CERT GmbH, Am TÜV 1, 45307 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The deputy head of the notified body



(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 21 ATEX 307715 X**

Issue 01

(15) **Description of product:**

The Autarkic Radar Sensors VEGAPULS Air 23, 42 are used for non-contact level measurement of liquids and solids.

VEGAPULS Air 23, 42 emit a radar signal in the GHz range via their antennas. The transmitted signal is reflected by the medium and received by the antenna as an echo. The frequency difference between the transmitted and the received signal is proportional to the distance and depends on the level. The measured value is transmitted wirelessly via various radio technologies.

Type code:

VEGAPULS Air 23 resp. VEGAPULS Air 42

Electrical data:

Supply voltage

(Internal primary cells)

VEGAPULS Air 23:

$U_n = 3.6 \text{ V d.c.}$

Supply with 2x 3.6 V / 3.6 Ah; LS17500 (Li-SOCL2)- cells.

VEGAPULS Air 42:

$U_n = 3.6 \text{ V d.c.}$

Supply with 1x 3.6 V / 17 Ah; LS33600 (Li-SOCL2)- cell.

Thermal data:

Permissible ambient temperature range during operation: $-20 \text{ °C} \leq T_a \leq +60 \text{ °C}$

(16) Drawings and documents are listed in the ATEX Assessment Report No. 23 203 347523

(17) **Specific Conditions for Use:**

1. The Autarkic Radar Sensor type VEGAPULS Air 23 resp. VEGAPULS Air 42 has to be installed and used in such a way, that electrostatic charging from operation, maintenance and cleaning is excluded.
For the uses in potentially explosive dust atmospheres process-related electrostatic charges, e.g. due to passing media have to be excluded.
2. For EPL Gc applications:
The "Memory Stick" has only to be operated outside the hazardous area at the USB port.
The connection and disconnection of the SIM card as well as the changing of the power supply cells including their connectors has only be carried out outside the hazardous area.
The connection and disconnection of the hybrid capacitor (only for the Autarkic Radar Sensor type VEGAPULS Air 42) has only be carried out outside the hazardous area by the manufacturer within the scope of repairs.
3. Only permissible cells according to the manufacturer`s operating instructions are allowed to be used.
4. The filter element on the housing wall of the VEGAPULS Air 42 variant is certified as a part of this variant.
5. The permissible ambient temperature range is given in the operating instructions.

- (18) **Essential Health and Safety Requirements:**
No additional ones.

- End of EU-Type Examination Certificate -



Translation

(1) **EU-Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**

(3) **Certificate Number** TÜV 21 ATEX 307715 X **Issue:** 00

(4) for the product: Autarkic Radar Sensor VEGAPULS Air 23 resp. VEGAPULS Air 42

(5) of the manufacturer: **VEGA Grieshaber KG**

(6) Address: Am Hohenstein 113
77761 Schiltach
Germany

Order number: 8003037980

Date of issue: 2022-04-04

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 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 ATEX Assessment Report No. 21 203 307715.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018/AC:2020-02 EN IEC 60079-7:2015/A1:2018 EN 60079-31:2014

except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for 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 equipment. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 3 G Ex ec II6 T6...T1 Gc or

II 2 D Ex tb IIIC T135°C Db or

II 3 D Ex tc IIIC T135°C Dc

TÜV NORD CERT GmbH, Am TÜV 1, 45307 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The deputy of the head of the notified body

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(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 21 ATEX 307715 X** **Issue 00**

(15) **Description of product:**

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VEGAPULS Air 23, 42 emit a radar signal in the GHz range via their antennas. The transmitted signal is reflected by the medium and received by the antenna as an echo. The frequency difference between the transmitted and the received signal is proportional to the distance and depends on the level. The measured value is transmitted wirelessly via various radio technologies.

Type code:

VEGAPULS Air 23 resp. VEGAPULS Air 42

Electrical data:

Supply voltage
(Internal primary cells)

VEGAPULS Air 23:

$U_n = 3.6 \text{ V d.c.}$

Supply with 2x 3.6 V / 3.6 Ah Li-SOCL2- cells

VEGAPULS Air 42:

$U_n = 3.6 \text{ V d.c.}$

Supply with 5x 3.6 V / 3.6 Ah Li-SOCL2- cells

Thermal data:

Permissible ambient temperature range during operation: $-20 \text{ °C} \leq T_a \leq +60 \text{ °C}$

(16) Drawings and documents are listed in the ATEX Assessment Report No. 21 203 307715

(17) **Specific Conditions for Use:**

1. The Autarkic Radar Sensor type VEGAPULS Air 23 resp. VEGAPULS Air 42 has to be installed and used in such a way, that electrostatic charging from operation, maintenance and cleaning is excluded.
For the uses in potentially explosive dust atmospheres process-related electrostatic charges, e.g. due to passing media have to be excluded.
2. For EPL Gc applications, the "Memory Stick" has only to be operated outside the hazardous area at the USB port.
The connection and disconnection of the SIM card as well as the changing of the power supply cells including their connectors has only be carried out outside the hazardous area.
3. Only permissible cells according to the manufacturer`s operating instructions are allowed to be used.
4. The filter element on the housing wall of the VEGAPULS Air 42 variant is only certified as a part of this variant.
5. The permissible ambient temperature range is given in the operating instructions.

- (18) **Essential Health and Safety Requirements:**
No additional ones.

- End of EU-Type Examination Certificate -

