

[1]

EU-TYPE EXAMINATION CERTIFICATE

[2] Product Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: **DNV 21 ATEX 73941X** **Issue 0**

[4] Product: **Sensor (relative humidity, water presence and temperature)**

[5] Manufacturer: **Bartec GmbH**

[6] Address: **Max-Eyth-Str.16
97980 Bad Mergentheim
Germany**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2460, in accordance with Article 17 and Article 21 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 reports listed in item 16.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: **EN IEC 60079-0:2018 and EN 60079-11:2012**

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

[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 in accordance to the Directive 2014/34/EU. 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 1G Ex ia IIC T4 Ga Tamb -40°C to +80°C**

Date of issue:
2021-07-09



Bjørn Spongsveen
For DNV Product Assurance AS
The Certificate has been digitally signed.
See www.dnv.com/digitalsignatures for info



- [13] **Schedule**
- [14] **EU-Type Examination Certificate No:** DNV 21 ATEX 73941X Issue 0
- [15] **Description of Product**
The EXaminer CUI sensor will detect Relative Humidity, Temperature and Water Presence in CUI (Corrosion Under Insulation) applications.
- The EXaminer sensors are battery operated by two cells serial coupled. The cells are non-chargeable. The electronics and cells are mounted inside a non-metallic enclosure. The enclosure is then filled with casting compound. The Fusion unit cannot be opened and has no physical wiring terminals. Communication takes place through the Bluetooth communication protocol or NB-IoT/LTE-M integrated in the electronics of the unit. The cells cannot be charged or replaced.
- Type designation**
CUI 310
- Electrical Data**
2 x 3V (battery operated, non-replaceable)
- Ambient temperature:**
-40°C to +80°C
- Routine tests**
N / A
- [16] **Report No.:** PRJN-256420-2021-PA-NOR
- [17] **Specific Conditions of Use**
1. Equipment must be mounted on the metallic enclosure and/or contact with earth must be assured
 2. Potential electrostatic charging hazard – see instructions
- [18] **Essential Health and Safety Requirements**
Met by compliance with the requirements mentioned in item 9.

[19] Drawings and documents

| Number | Title | Rev. | Date |
|----------------|---|------|------------|
| EX-1017 | PCB Layer Documentation | B | 22.05.2019 |
| 11-2131-650001 | EXaminer CUI 310 E NB Typ/type 17-2131-****/**** | 0 | 08.07.2021 |
| EX-20024 | CUI base, main drawing | B | 04.08.2020 |
| EX-20025 | CUI dome, main drawing | B | 04.08.2020 |
| EX-20026 | PCB Layers | C | 25.05.2021 |
| EX-20066 | PCB Layers | A | 10.06.2021 |
| EX-20027 | Electrical Circuit Diagram | D | 02.06.2021 |
| EX-20065 | Electrical Circuit Diagram rev 5 | A | 03.06.2021 |
| EX-20034 | CUI exploded view | E | 01.06.2021 |
| EX-20044 | CUI exploded view alt. assembly | F | 01.06.2021 |
| EX-20045 | CUI exploded view alt. thread assembly | F | 01.06.2021 |
| EX-DOC-0046 | Procedure casting | 1 | 21.10.2020 |
| EX-DOC-0053 | Re-work assembly | 2 | 14.06.2021 |
| EX-DOC-0043 | Bill-Of-Material-PCB-RH | 3 | 10.06.2021 |
| EX-DOC-0054 | Bill-Of-Material-PCB-RH | 1 | 10.06.2021 |

[20] Certificate History

| Issue | Description | Issue date | Report no. |
|-------|----------------|------------|-------------------------|
| 0 | Original issue | 2021-07-09 | PRJN-256420-2021-PA-NOR |

END OF CERTIFICATE