

# [1] EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protected System Intended for use  
in Potentially Explosive Atmospheres  
Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **Nemko 09ATEX1119X** Issue **5**

[4] Product: **Headset with microphone and speaker,  
twin cup.**

[5] Manufacturer: **3M Svenska AB**

[6] Address: **Malmstengatan 19  
Box 2341  
SE-33102 Värnamo  
Sweden**

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

[8] Nemko Group AS, notified body number 0470, in accordance with Article 17 of the 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.

**PRJN-393177**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0: 2018, EN 60079-11: 2012**

[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 technical 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 2G**

**Ex ib IIC T4 Gb, Ta : -20°C to +50°C**

2023-02-16



**Bernt Jonny Orderud**  
Certifier name

## [13] Schedule

[14] **EU-TYPE EXAMINATION CERTIFICATE No**    **Nemko 09ATEX1119X**    **Issue 5**

[15] **Description of Product:**

The headset consists of two headphones and a microphone connected to a common plug (jack plug). This certificate covers two models, one with headband and one with helmet attachment.

**Type Designations:**

MT72H540A-50, MT72H540P3E-50

**Intrinsic Safety Data**

Ui: 14V, Ii: 450mA, Pi: 1,3W, Ci: Negligible, Li: 0,8mH

**Ambient temperature:**

-20°C to +50°C

**Routine tests:**

None.

[16] **Report No. PRJN-393177**

**Descriptive Documents:**

| Number  | Title                            | Rev | Date                |
|---------|----------------------------------|-----|---------------------|
| P080137 | Assembly Drawing MT72H540P3E-50  | d   | 2023-01-19          |
| P210148 | Assembly Drawing MT72H540A-50    | a   | 2023-01-19          |
| P080139 | Wiring Instruction MT72H540**-50 | a   | 2008-02-22          |
| P080436 | Ex Label MT72H540P3E-50          | f   | 2023-01-19          |
| FP3768  | Instruction Manual               | d   | Same as certificate |

**Certificate History and Associated Reports:**

| Issue | Date       | Report No.                            | Description   |
|-------|------------|---------------------------------------|---|
| 0     | 2009-04-27 | Nemko 126520                          | Prime Certificate released  |
| 1     | 2011-09-20 | Nemko 187494                          | Increased the current in safety parameters for intrinsically safe connection and added a microphone, M01N-02.   |
| 2     | 2015-05-08 | D0001834-0 / Nemko 284573             | Update to new standards.  |
| 3     | 2018-10-04 | D0001834-1 / Nemko 361471             | Minor update of marking label and instructions due to PPE regulation 2016/425/EU.   |
| 4     | 2020-12-14 | D0001834-02 / PRJN-200955-2020-PA-NOR | Update of datasheet for microphone and speaker. Model type MT72H540F-50 removed from certificate. Minor update of marking label and instructions manual. Upgrade to standard EN 60079-0: 2018.  |
| 5     | 2023-02-03 | PRJN-393177                           | <ul style="list-style-type: none"> <li>- Update of marking due to UKEX certification.</li> <li>- Included new variant of headset, MT72H540A-50.</li> <li>- Remove variant MT72H540F-50.</li> <li>- Minor updates of descriptive documents.</li> </ul> |

**[17] Specific Conditions of Use:**

Only for connection to a certified intrinsically safe circuit with a linear resistive output, that complies with the following values for the intrinsic safety parameters of MT72H540A-50 and MT72H540P3E-50:

Ui: 14V, Ii: 450mA, Pi: 1,3W, Ci: Negligible, Li: 0,8mH

**[18] Essential Health and Safety Requirements:**

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

**[19] Remarks and additional Information:**

None