

# UNIT ASSESSMENT CERTIFICATE

## ARTIDOR 24ATEX9999 X

3. We, Artidor Explosion Safety B.V., Emopad 38, 5663 PB Geldrop, The Netherlands, herewith declare that:

4. **Apparatus:** Explosion-safe Smoke detector  
**Type:** AR-025/001  
**Supply:** 12 VDC, 35 mA  
**Quantity:** 1 piece  
**Lot No.:** AS249999

5. 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 European directive 2014/34/EU.

6. Compliance with the Essential Health and Safety Requirements for group II, category 3G equipment has been assured by compliance with the following harmonized standards:

- EN 60079-0:2018
- EN 60079-7:2015 / A1:2018
- EN 60079-18:2015 / A1:2017

7. The design and the results of the examination and tests carried out are documented in confidential technical construction file No. AS249999, held at the offices of Artidor Explosion Safety B.V.

8. If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to the specific conditions for use as described in this declaration.

9. The marking of the equipment includes the following:



II 3 G Ex ec mc IIC T6 Gc

10. This certificate only relates to the examination and tests according to European directive 2014/34/EU and to the equipment of the above mentioned type, lot number and Ex marking.

11. Production is controlled by the Artidor Quality Assurance system in accordance with ISO 9001:2015 and annex VIII of European directive 2014/34/EU.

12. This certificate does not imply that the apparatus meets all statutory requirements in any particular industry or circumstance.

13. The ambient temperature allowed is -20 °C to +50 °C.

14. Description

The AR-025 Smoke detector is placed on top of a metal increased safe housing containing the certified connection terminals and cable glands. The low power electronic circuits of the smoke detector are molded meeting the requirements of protection method against ignition encapsulation "mc".

After assessment and testing we have found that the Smoke detector meets the requirements of encapsulation "mc" and increased safety "ec". Throughout the prescribed tests, which were carried out under the requisite conditions, the housing surface temperature at no time exceeded the maximum temperature related to the T6 temperature class, corrected for the maximum ambient temperature specified in the rating and the 5 °C margin for type testing as mentioned in the standard.

15. **Specific conditions for use**

1. Propagating brush discharges shall be avoided, refer to the installation manual.
2. To avoid electrostatic charge clean with a damp cloth only. Do not use solvents.
3. Protect the smoke detector from mechanical impact exceeding 2 Joule.

Geldrop, 1 November 2024

M. Moolenaar  
Managing Director and EX Authorized Person