

UNIT ASSESSMENT CERTIFICATE

Issued by a competent body in explosion safety

ARTIDOR 23ATEX9999 X

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

Apparatus: Explosion-safe Smoke detector
Type: AR-025/001
Supply: 12 VDC, 35 mA
Quantity: 1 piece
Lot No.: AS239999

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 directive 2014/34/EU.

Compliance with the Essential Health and Safety Requirements for group II, category 3GD 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
- EN 60079-31:2014

The design and the results of the examination and tests carried out are documented in confidential technical construction file No. AS239999, held at the offices of Artidor Explosion Safety B.V.

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.

The marking of the equipment includes the following:



II 3 G Ex ec mc IIC T6 Gc
II 3 D Ex mc tc IIIC T80°C Dc

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

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

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

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

14. Description

The AR-025 Smoke detector is placed on top of a metal "ec" / "tc" housing containing the connection terminals. The low power electronic circuits are molded meeting the requirements of encapsulation "mc". The housing is provided with suitable Ex certified connection terminals and two IP67 ATEX certified cable glands.

After assessment and testing we have found that the Smoke detector meets the requirements of encapsulation "mc", increased safety "ec" and protection by enclosure "tc".

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**

Protect the smoke detector from mechanical impact exceeding 2 Joule.

Geldrop, 1 January 2023

M. Moolenaar
Managing Director and EX Authorized Person