(1) # EU-Type-Examination Certificate

(2) Safety-related device
intended for use in potentially
explosive atmospheres, **Directive 2014/34/EU**

(3) **Certificate Number** **TÜV CY 21 ATEX 0206456 X**

(4) for the safety-related device: Gas detector Type E7 (MOON)

(5) of the manufacturer: **MICROMAC s.r.l.**

(6) Address: Via A. Stoppani, 1 - 23801 Calolziocorte (LC) - Italy

Order number: 0206456

Date of issue: 2021-06-09

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

(8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this safety-related device has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of safety-related devices 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. 21 0206456.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-29-1:2016 **EN 50271:2018 (§4.1 to §4.7 - §5 - Annex A)**

(10) If the sign "X" is placed after the certificate number, it indicates that the safety-related device is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified safety-related device in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this safety-related device which are not covered by this certificate.

(12) The marking of the safety-related device must include the following:
II 2G (AR16ATEX012)

TÜV CYPRUS Ltd (TUV NORD Group),

The head of the notified body,

D. Demosthenous

Notified Body TÜV CYPRUS Member of TÜV Nord 2261

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This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd

(13) **SCHEDULE**

(14) **EU-Type-Examination Certificate No. TÜV CY 21 ATEX 0206456 X**

(15) Description of safety-related device

This EU-Type Examination Certificate is part of the EU-Type Examination for the gas detection sensors with a measuring function for explosion protection in accordance with the Directive 2014/34/EU, Annex II, Section 1.5 (safety-related devices) and is only valid in connection with the EC-Type Examination Certificate AR16ATEX012 (related to the ignition protection conformity) issued on 18th April 2016. This supplementary EU-Type certificate covers the tests of the measuring functions of the safety-related device in according with the harmonized standards EN 60079-29-1:2016 and EN 50271:2018 (Clauses 4.1 to 4.7 - 5 - Annex A) for apparatus with a measuring function range for methane gas up to 100% of the lower flammable limit (L.F.L) and to the installed software implemented in the modules. This EU-type Examination applies to the modules with the installed software version as listed below.

Safety-Related device:
ATEX gas detector for methane gas measurement (measuring range: 0-100% L.F.L.). Fixed apparatus.

Code description:
E700IR-2-42 with IR sensor and 4-20 mA output module
E700IR-2-RL with IR sensor and 3 relay output module (fault, pre-alarm and alarm)
E700IR-2-MB with Modbus card
E700P-2-42 with pellistor sensor and 4-20 mA output module
E700P-2-RL with pellistor sensor and 3 relay output module (fault, pre-alarm and alarm)
E700P-2-MB with Modbus card

FW version:
Base board firmware: 6.6
Sensor board firmware: 6.6
GasModbus firmware: 2.0

Interfaces which provide output signals which can be used for safety relevant purposes: see instruction manual.
Measuring principle of the sensor: Pellistor, IR

Technical data:
Power supply: 12/24 V_{dc}

Permissible range of ambient temperature:
Ambient Temperature: 0°C ÷ + 40°C

Warning Markings:
None

(16) Test documents are listed in the test report No. 21 0206456

(17) Special conditions for safe use

The user/installer shall comply with the environmental restrictions that apply to the use of this equipment, as stated in the product's instruction and installation manual.

(18) Essential Health and Safety Requirements
This certificate covers the Essential Health and Safety Requirements 1.5.5, 1.5.6, 1.5.7, 1.5.8 related to the Directive 2014/34/EU.