[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] **Component intended for use on/in Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

[3] EU-Type Examination Certificate Number: **UL 23 ATEX 3073U Rev. 0**

[4] Component: **Optical Gas Sensor**

[5] Manufacturer: **SIA MIPEX**

[6] Address: **Valkas Iela 2b, Daugavpils, 5417 Latvia**

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

[8] UL International Demko A/S, notified body number 0539 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 confidential report no. **US/UL/ExTR23.0075/00.**

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

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

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

[10] The sign "U" placed behind the certificate number indicates that this certificate should not be confused with certificates issued for equipment or protective systems. This partial certification may be used as a basis for certification of an equipment or protective systems. “Schedule of limitations” is listed under item 17 of this certificate.

[11] This EU-Type Examination Certificate relates only to the technical design 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 the certificate.

[12] The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

I M1 / II 1G Ex ia I Ma / Ex ia IIC Ga

Certification Manager
Thomas Wilson

This is to certify that the sample(s) of the Component described herein (“Certified Component”) has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the component sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured component. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL’s prior written approval.

Date of issue: 2023-10-16

Notified Body

UL International Demko A/S, Ballerup 5A, 2750 Ballerup, Denmark
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[13] [14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
UL 23 ATEX 3073U Rev. 0

[15] Description of Component:
The equipment is housed within a non-metallic enclosure which is considered to achieve IP20, a membrane can be applied by the manufacturer which increases the ingress protection rating IP54.
The user/installation manual details the correct method for the end manufacturer to install the device within their equipment.
The equipment must be fitted with the dust filter for use within Group I environments.

Nomenclature for MIPEX -04 Sensors:

MIPEX-04	-B	-CC	-D	.E
I	II	III	IV	V

I MIPEX Model Number

II Target gas
1 - CH4 (methane)
2 - C3H8 (propane, CmHn – hydrocarbons)

III Application:
R – calibration gas and range
X – temperature class and variability

IV Housing type:
3 - “Plastic”

V Interface:
1 – UART

Temperature range
The ambient temperature range is -40 °C to +60 °C.

Electrical data

Intrinsically safe specifications:
Ui = 5.5 V, Ii = 200 mA, Pi = 0.13 W, Ci = 26 µF, Li = 0

Routine tests
None

[16] Descriptive Documents
The scheduled documents are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17] Schedule of limitations:
- The MIPEX 04-B-CC-3.1 model of the equipment is housed within a plastic enclosure which requires the following to be placed on the certificate and the following guidance included within the manual: WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD – CLEAN ONLY WITH A DAMP CLOTH.
- All models are suitable for equipment with temperature classes T1 – T6 an ambient temperature range of -40°C ≤ Tamb ≤ +60°C.
- The equipment must be fitted with the dust filter for use within Group I environments.

[18] Essential Health and Safety Requirements
The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information
The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.