



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx KSCP 24.0059U**

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Certificate history:

Status: **Current**

Issue No: 1

[Issue 0 \(2024-12-13\)](#)

Date of Issue: 2026-07-08

Applicant: **MGS TECHNOLOGY DOO**
Bulevar Patrijarha Germana 91,
Beli Potok, 11223 Belgrade,
Serbia

Ex Component: Ultra-low Power Infrared Gas Sensor MIPEX-04-X-XX-3.5

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **intrinsic safety "i"**

Marking: Ex ia I Ma

Ex ia IIC Ga

Ts: -40 °C to +60 °C

Approved for issue on behalf of the IECEx
Certification Body:

Łukasz Brudny

Position:

Certification Specialist

Signature:
(for printed version)

Date:
(for printed version)

2026.07.08

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

KSC POLAND Sp. z o.o.
Chorzowska 150 Street
Katowice 40-101
Poland





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Date of issue: 2026-07-08

Issue No: 1

Manufacturer: **MGS TECHNOLOGY DOO**
Bulevar Patrijarha Germana 91,
Beli Potok, 11223 Belgrade,
Serbia

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[PL/KSCP/ExTR24.0059/00](#)

Quality Assessment Report:

[DK/ULD/QAR24.0002/00](#)



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Ex Component(s) covered by this certificate is described below:

The Ultra-low Power Infrared Gas Sensor MIPEX-04-X-XX-3.5 is a smart integrated system and includes mirror optical system, photodiode and LED, signal amplifiers, microcontroller, current driver of the infrared LED, UART interface signal generator and forming voltage supply unit. Refere to certificate addendum.

SCHEDULE OF LIMITATIONS:

- When the component Ultra-low Power Infrared Gas Sensor MIPEX-04-X-XX-3.5 is integrated to a host equipment, the complete assembly shall be certified.
- The equipment must be housed in an enclosure meeting the minimum IP20 rating or better, according to the intended host equipment application, the assembly must comply with clause 6.1 of IEC 60079-11.
- If the external part of the sensor is located outside the host equipment enclosure, the exposed surface area must be evaluated according to clause 7.4 of IEC 60079-0 to avoid risks of electrostatic discharges.



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Date of issue: 2026-07-08

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

Remove "Metrological properties of sensor" from the product description in the certificate addendum.

No other technical changes.

Annex:

[Addendum_IECEx KSCP 24.0059U_01.pdf](#)



Addendum to IECEx Certificate

Reference Number.....:	IECEx KSCP 24.0059U
Issue.....:	Issue 1

Issue 1:

Remove "Metrological properties of sensor" from the product description in the certificate addendum.
No other technical changes.

Description:

The Ultra-low Power Infrared Gas Sensor MIPEX-04-X-XX-3.5 is a smart integrated system and includes mirror optical system, photodiode and LED, signal amplifiers, microcontroller, current driver of the infrared LED, UART interface signal generator and forming voltage supply unit. Sensor microcontroller performs storage of unique sensor calibration constants, processing of measurement results and concentration of measured gas, and information exchange. Sensor operating principle is based on NDIR technology, i.e. on selective infrared radiation absorption by gas molecules.

Nomenclature:

MIPEX	-04	-X	-XX	-3	.5
	I	II	III	IV	V

I : MIPEX Model number

II: Target gas:

1. CH₄ (methane)
2. C₃H₈ (propane, C_mH_n – hydrocarbons)

III: Application:

- R – calibration gas and range
- X – temperature class and accuracy

IV: Housing type:

3. "Plastic"

V: Interface options:

5. UART

The equipment has the following marking and warning:

Item	Detail
Name of Manufacturer/Trade mark	MGS TECHNOLOGY DOO micropower gas sensing 
Address of manufacturer	Bulevar Patrijarha Germana 91, Beli Potok, 11223 Belgrade, Republic of Serbia
Equipment name	Ultra-low Power Infrared Gas Sensor
Type identification	MIPEX-04-X-XX-3.5
Serial No. and year of manufacture	NNNNNN

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IECEX certificate number	IECEX KSCP 24.0059U
Code	Ex ia I Ma Ex ia IIC Ga
Service temperature	-40 °C to +60 °C
Warnings	N/A
Rating	Ui = 5.4 V, Ii = 200 mA, Pi = 0.13 W, Ci = 58.1 µF, Li = 0 mH

Conditions of manufacture:

- i. No tests were considered necessary

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