



# 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](http://www.iecex.com)

Certificate No.: **IECEX SEV 22.0008** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 1 [Issue 0 \(2022-03-03\)](#)  
Date of Issue: 2026-04-17  
Applicant: **Mems AG**  
Bruggerstrasse 30  
5413 Birmenstorf  
**Switzerland**  
Equipment: **Gas sensor, Type: gasQS static**  
Optional accessory:  
Type of Protection: **i**  
Marking: **Ex ia IIC T4 Ga**

Approved for issue on behalf of the IECEx  
Certification Body:

**Urban Strebel**

Position:

**Manager Product Certification**

Signature:  
(for printed version)

Date:  
(for printed version)

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Eurofins Electric & Electronic Product Testing AG**  
Luppenstrasse 3  
8320 FEHRALTORF .  
**Switzerland**



E&E



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Manufacturer: **Mems AG**  
Bruggerstrasse 30  
5413 Birmenstorf  
**Switzerland**

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 equipment 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 60079-11:2023](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:7.0

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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CH/SEV/ExTR22.0008/01](#)

Quality Assessment Report:

[CH/SEV/QAR22.0001/02](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Gas sensor, Type: gasQS static

The gas sensor type gasQS static is an intrinsically safe sensor for use in explosive gas atmosphere, and to be connected to intrinsically safe supply 24 Vdc. The metallic enclosure provides ingress protection IP 54. The analogue output 4-20 mA shows the result of lambda ratio measurement, 4 mA stands for 0 % and 20 mA for 100 % equality of methane.

### Electrical ratings:

Measurement and supply circuit:

In type of protection intrinsically safe Ex ia IIC only to connect to an certified intrinsically safe circuit:

### Maximum ratings:

$U_i \leq 28 \text{ V}$

$I_i \leq 100 \text{ mA}$

$P_i \leq 700 \text{ mW}$

$C_i = 16 \text{ nF}$   $L_i = 10 \text{ }\mu\text{H}$

Classification of installation and use: fixed

Ingress protection: IP54

Rated ambient temperature range (°C): -20 °C to +65 °C

**SPECIFIC CONDITIONS OF USE: NO**



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Revised electronic Boards.

The enclosure material changed from aluminium to stainless steel 1.4404 and the X for special condition of use is removed.

Revised documentation and intrinsic safety calculation.

Update for IEC 60079-11 Edition 6.0 to IEC 60079-11 Edition 7.0.