



- (1) **EU-Type Examination Certificate**
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 15 ATEX 0191**
- (4) Product: Gas sensor, Type: gasQS static
- (5) Manufacturer: Mems AG
- (6) Address: Bruggerstrasse 30, 5413 Birmenstorf, Switzerland
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Eurofins, notified body No. 1258, in accordance with article 17 of 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 20CH-01785OR05.X04
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
- EN IEC 60079-0:2018**
EN IEC 60079-11:2024
- Except in respect of those requirements listed at item 18 of the schedule.
- (10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- (11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



II 1G Ex ia IIC T4 Ga

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Urban Strebel
Product Certification

Appendix

(13)

(14)

EU-Type Examination Certificate no. SEV 15 ATEX 0191

(15) **Description of product**

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 V dc. 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 a certified intrinsically safe circuit:

Maximum ratings:

Ui	≤	28 V
li	≤	100 mA
Pi	≤	700 mW
Ci	=	16 nF
Li	=	10 μH

Classification of installation and use:

Fixed

Ingress protection:

IP54

Rated ambient temperature range (°C):

-20 °C to +65 °C

(16) **Report number**

20CH-01785OR05.X04

(17) **Specific conditions of use**

None

(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause Subject

None

(19) **Drawings and Documents**

See test report „Manufacturer’s Documents“.

