

(1) **Certificate of Conformity**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) Certificate Number

EPS 16 ATEX 1 182 X

Revision 1

(4) Equipment: SWG100 BIOGAS-EX

(5) Manufacturer: MRU Messgeräte für Rauchgase und Umweltschutz GmbH

(6) Address: Fuchshalde 8
74172 Neckarsulm-Obereisesheim
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this Certificate of Conformity and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 16TH0283.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

**EN 60079-7:2015,
EN IEC 60079-7:2015/A1:2018**

**EN IEC 60079-15:2019
(EN 60079-15:2010)**

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

(11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

 II 3G Ex ec nC IIC T6 Gc (without internal heater)

 II 3G Ex db ec nC IIC T4/T3 Gc (with internal heater)



Certification department of explosion protection

Tuerkheim, 2023-02-28

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

Annex

(14) **Certificate of Conformity EPS 16 ATEX 1 182 X**

Revision 1

(15) Description of equipment:

Stationary Biogas-measuring system for continuous measurements.

The product SWG100 BIOGAS-EX represents a complete automatic measuring device for the continuous analysis of the composition of gases. Sample gases are biogases with a typical composition of about 60% by volume CH₄ and 40% by volume CO₂.

The analyser consists of a metal cabinet into which the sample gas is introduced and in which the analysis modules are located. The operation is located behind an impact-resistant protective window of the device, measurement data can be displayed, saved or output via various electrical signals.

Electrical data:

230 V / 50 Hz / 10 A

(16) Reference number: 16TH0283

(17) Special conditions for safe use:

The device must be protected against excessive UV light emission.

The installation is intended to minimize the risk from electrostatic discharge.

Ambient temperature range +5 °C to +45 °C (without internal heater).

Ambient temperature range -10 °C to +45 °C (with internal heater).

Max. operating temperature of the internal heater: +180°C (+120°C for T4)

(18) Essential health and safety requirements:

Met by compliance with standards.

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