



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEX Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX BVS 13.0056X** issue No.:2

Status: **Current**

Date of Issue: **2017-12-11** Page 1 of 5

Certificate history:  
Issue No. 2 (2017-12-11)  
Issue No. 1 (2015-8-31)  
Issue No. 0 (2013-6-4)

Applicant: **ABB Automation GmbH**  
Stierstädter Str. 5  
60488 Frankfurt  
Germany

Equipment: **Analyser module type EL3060-Uras26**  
Optional accessory:

Type of Protection: **Equipment protection by flameproof enclosures "d"**


Marking: **Ex db IIC T4 Gb**

Approved for issue on behalf of the IECEX Certification Body: **Jörg Koch**

Position: **Head of Certification Body**

Signature:  
(for printed version)

Date:

  
\_\_\_\_\_  
11.12.17

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 the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

**DEKRA EXAM GmbH**  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
On the safe side.



# IECEX Certificate of Conformity

Certificate No.: IECEx BVS 13.0056X

Date of Issue: 2017-12-11

Issue No.: 2

Page 2 of 5

Manufacturer: **ABB Automation GmbH**  
Stierstädter Str. 5  
60488 Frankfurt am Main  
Germany

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition: 6.0

**IEC 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 7.0

*This Certificate **does not** indicate compliance with electrical 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:

[DE/BVS/ExTR13.0058/02](#)

Quality Assessment Report:

[DE/BVS/QAR09.0006/06](#)



# IECEX Certificate of Conformity

Certificate No.: IECEx BVS 13.0056X

Date of Issue: 2017-12-11

Issue No.: 2

Page 3 of 5

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

### Subject and Type

Analyser module type EL3060-Uras26

### Description

The analyser module type EL3060-Uras26 serves for the measurement of individual components of flammable or non-flammable gas mixtures in combination of the control unit type EL3060-... (IECEX BVS 13.00037X). The module is installed in an enclosure type ALD-01 (IECEX SIQ 14.0007U). The inner section (base plate) of the base cover is fitted with breathing devices for the connection of probe, of flushing gas, of exhaust and, if applicable, of atmospheric pressure correction as well as with cable entries for the electrical supply.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- The Analyser module type EL3060-Uras26 may only be used in connection with the Control unit type EL3060-..., IECEx BVS 13.00037X.
- The parameters as per "pneumatic data" shall be observed.
- If combustible gases are supplied at a pressure > 1.1 bar, the gas line inside the analyser and the supply line shall be purged with inert gas prior to the analysis.
- The analysis of mixtures of combustible gases with other gases at a pressure > 1.1 bar is not permissible for potentially explosive mixtures.
- Combustible gases which are, for the relevant conditions of the analysis, explosive in the absence of oxygen shall be present in the analysed mixture, safety related, only in an uncritical concentration.
- The permissible ambient temperature range is -20 °C up to +45 °C.
- The dimensions of the flameproof joints are in parts other than the relevant minimum or maximum values of IEC 60079-1:2014. For information on the dimensions of the flameproof joints contact the manufacturer.
- The flow of the incoming process must be monitored with a flow rate limiter according the requirements IEC 60079-1:2014 Annex G.3.3.
- The max. number and shape of the thread entries as well as the installation position are specified in the manufacturer instructions.



# IECEX Certificate of Conformity

Certificate No.: IECEx BVS 13.0056X

Date of Issue: 2017-12-11

Issue No.: 2

Page 4 of 5

## EQUIPMENT(continued):

### Parameters

#### Electrical data

Nominal voltage	DC	24	V
Nominal power	up to	100	W

#### Pneumatic data

##### Version atmospheric

Probe pressure for occasionally explosive mixture	≤	1.1	bar
--	---	-----	-----

Gas flow probe (atmospheric exhaust)	≤	100	l/h
---	---	-----	-----

##### Version probe overpressure

Probe pressure for occasionally explosive mixture	≤	1.1	bar
--	---	-----	-----

for non-explosive mixture	≤	1.4	bar
---------------------------	---	-----	-----

Gas flow probe (atmospheric exhaust)	≤	100	l/h
---	---	-----	-----

total gas flow probe plus exhaust gas re-circulation (non atmospheric exhaust)	≤	100	l/h
---	---	-----	-----

Ambient temperature range	-20 °C ≤ T <sub>a</sub> ≤ 45 °C
---------------------------	---------------------------------



# IECEX Certificate of Conformity

Certificate No.: IECEx BVS 13.0056X

Date of Issue: 2017-12-11

Issue No.: 2

Page 5 of 5

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

- Updating of the standard IEC 60079-1:2014
- Modification of the documentation
- Empty enclosure type 8214/1...-1 will not use, anymore