



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

Certificate No.: **IECEX BVS 13.0037X** issue No.:1

Certificate history:
Issue No. 1 (2017-9-25)
Issue No. 0 (2013-5-6)

Status: **Current**

Date of Issue: **2017-09-25** Page 1 of 5

Applicant: **ABB Automation GmbH**
Stierstädterstr. 5
60488 Frankfurt am Main
Germany

Equipment: **Control unit / Gas analyser type EL3060-...**
Optional accessory:

Type of Protection: **Equipment protection by flameproof enclosures "d", Equipment protection by increased safety "e"**

Marking: **Ex db e IIC T4 Gb**


Approved for issue on behalf of the IECEX
Certification Body:

Dr Franz Eickhoff

Position:

Deputy Head of Certification Body

Signature:
(for printed version)


2017-09-25

Date:

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.



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Manufacturer: **ABB Automation GmbH**
Stierstädterstr. 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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR13.0053/01](#)

Quality Assessment Report:
[DE/BVS/QAR09.0006/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and Type

Control unit / Gas analyser type EL3060-...

Type EL3060-CU:	only display, control and supply unit for external analyzer
Type EL3060-Caldos25:	with integrated analyzer Caldos25
Type EL3060-Caldos27:	with integrated analyzer Caldos27
Type EL3060-Magnos206:	with integrated analyzer Magnos206
Type EL3060-Magnos28:	with integrated analyzer Magnos28

Description

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1) The parameters shall be observed.
- 2) The analysis of mixtures of combustible gases with other gases at a pressure > 1100 hPa is not permissible for potentially explosive mixtures.
- 3) 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.
- 4) The permissible ambient temperature range is -20 °C up to 50 °C. The gas analyser may only be switched on if the lower ambient temperature is not below 0 °C.
- 5) The measurement function for explosion protection is not the subject of this Certificate.



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EQUIPMENT(continued):

Parameters

Electrical data

Supply voltage	AC	100...240	V
Power consumption	up to	187	W

Pneumatic data

Flushing gas			
Inlet pressure	≤	1100	hPa

Probe - version atmospheric

Inlet pressure	≤	1100	hPa
Gas flow (atmospheric exhaust)	≤	100	l/h

Probe - version probe overpressure

Inlet pressure	≤	1200	hPa
Gas flow	≤	80	l/h

Ambient temperature range $-20\text{ °C} \leq T_a \leq 50\text{ °C}$



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

- Updating to standards IEC 60079-0:2011 and IEC 60079-1:2014.
- Addition of the analyser module type Magnos28.



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Description

The Control unit / Gas analyser type EL3060-... is used to control gas analysers. Different versions with and without integrated gas analyser for the measurement of individual components of flammable or non-flammable gas mixtures exist. The equipment is designed in the type of protection Flameproof Enclosure with a terminal box in the type of protection Increased Safety. The terminal box is equipped with separately certified terminals.

Listing of all components used referring to standards

Subject and type	Certificate	Standards
Empty enclosure GUB 03-V	IECEX CES 14.0012U	IEC 60079-0:2011 Ed. 6 IEC 60079-1:2014 Ed. 7
Terminal box 07-5101-.../....	IECEX PTB 11.0033X	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2006 Ed. 4
Terminal ZS...	IECEX LCI 08.0031U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2006 Ed. 4
Terminal WDK & WDU & WDPE	IECEX ULD 05.0008U	IEC 60079-0:2004 Ed. 4 ¹ IEC 60079-7:2001 Ed. 3 ¹
Line bushing 07-91...-.../....	IECEX EPS 13.0045U	IEC 60079-0:2011 Ed. 6 IEC 60079-1:2007 Ed. 6 ¹

¹ No applicable technical differences