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

Certificate No.: **IECEx BVS 13.0037X**

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Issue No: 5

Certificate history:

Issue 4 (2022-02-21)
Issue 3 (2020-01-22)
Issue 2 (2019-08-16)
Issue 1 (2017-09-25)
Issue 0 (2013-05-06)

Status: **Current**

Date of Issue: 2023-05-09

Applicant: **ABB AG**
Stierstädter Strasse 5
60488 Frankfurt
Germany

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

Optional accessory:

Type of Protection: **Flameproof Enclosures "d", Increased Safety "e"**

Marking: Ex db eb IIC T4 Gb

Approved for issue on behalf of the IECEx Certification Body: **Dr Franz Eickhoff**

Position: **Senior Lead Auditor, Certification Manager and officially recognised expert**

Signature:
(for printed version)

Date:
(for printed version) 2023-05-09

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Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany

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Certificate No.: **IECEx BVS 13.0037X**

Date of issue: 2023-05-09

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Manufacturer: **ABB AG**
Stierstädter Strasse 5
60488 Frankfurt
Germany

Manufacturing locations: **ABB AG**
Stierstädter Strasse 5
60488 Frankfurt
Germany

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

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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:

DE/BVS/ExTR13.0053/05

Quality Assessment Report:

DE/BVS/QAR09.0006/12

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Subject and Type

Control unit / Gas analyzer type EL3060-…

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

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 “d” (IECEx CES 14.0012U alternatively IECEx INE 13.0082U with a terminal box in the type of protection Increased Safety “e” (IECEx PTB 11.0033X alternatively IECEx IBE 15.0025U). The terminal box is equipped with separately certified terminals.

Listing of all used components

Subject and type	Certificate	Standards
Empty enclosure GUB 03-V	IECEx CES 14.0012U	IEC 60079-0:2011 Ed. 6[1] IEC 60079-1:2014 Ed. 7
alternative empty enclosure GUBW03	IECEx INE 13.0082U	IEC 60079-0:2017 Ed. 7 IEC 60079-1:2014 Ed. 7
Terminal box 07-5101-…./….	IECEx PTB 11.0033X	IEC 60079-0:2017 Ed. 7 IEC 60079-7:2017 Ed. 5.1
alternative terminal box CA-290	IECEx IBE 15.0025U	IEC 60079-0:2011 Ed. 6[1] IEC 60079-7:2015 Ed. 5[1]
Terminal WDK*	IECEx ULD 15.0003U	IEC 60079-0:2017 Ed. 7 IEC 60079-7:2017 Ed. 5.1
Terminal WDU & WPE	IECEx ULD 14.0005U	IEC 60079-0:2017 Ed. 7 IEC 60079-7:2017 Ed. 5.1
Line bushing 07-91..-…./….	IECEx EPS 13.0045U	IEC 60079-0:2017 Ed. 7 IEC 60079-1:2014 Ed. 7

[1] No applicable technical differences

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 -10 °C.

5 The measurement function for explosion protection is not the subject of this Certificate.

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Equipment (continued):

Parameters

1	Electrical data			
	Supply voltage	AC	100…240	V
	Power consumption	up to	187	W
2	Pneumatic data			
	Flushing gas			
	Inlet pressure	≤	1100	hPa
2.1	Probe - version atmospheric			
	Inlet pressure	≤	1100	hPa
	Gas flow (atmospheric exhaust)	≤	100	l/h
2.2	Probe - version probe overpressure			
	Inlet pressure	≤	1200	hPa
	Gas flow	≤	80	l/h
3	Ambient temperature range	-20 °C ≤ T_a ≤ 50 °C		

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Use of an alternative Ex-d empty enclosure (IECEx INE 13.0082U) and Ex-e empty enclosure (IECEx IBE 15.0025U)
- Updating of the standards IEC 60079-0:2017 and IEC 60079-7:2017

Annex:

BVS_13_0037X_ABB_Annex_4.pdf

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Certificate No.: **IECEx BVS 13.0037X issue No.: 4**
Annex

Parameters

Electrical data			
Supply voltage	AC	100…240	V
optionally	DC	24	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 °C ≤ T_a ≤ +50 °C		