



# 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.:  issue No.:

Status:

Date of Issue:  Page 1 of 4

Applicant: **Bartec GmbH**  
Max-Eyth-Straße 16  
97980 Bad Mergentheim  
Germany

Electrical Apparatus: **APC –APEX Pressurized Cabinet type \*7-37\*3-\*\*\*\*/\*\*\*\***  
*Optional accessory:*

Type of Protection: **Equipment protection by intrinsic safety "i", Equipment protection by pressurized enclosure "p"**

Marking: **Ex px IIC T3-T6 Gb or Ex px ib IIC T3-T6 Gb**  
Optional the marking can be amplified with the following types of protection d, e, mb, op is, q, [ia]<sup>1)</sup> and/or [ib]<sup>1)</sup> for using separately certified components.

<sup>1)</sup> In case separately certified components with an output circuit in type of protection [ia] resp. [ib], which is lead into areas requiring Ga resp. Gb equipment the marking is resp.: Ex px [ia] IIC T3-T6 Gb or Ex px [ib] IIC T3-T6 Gb.

Approved for issue on behalf of the IECEx Certification Body:   
Position:

Signature:   
(for printed version)  
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





# IECEX Certificate of Conformity

Certificate No.: IECEx BVS 13.0049

Date of Issue: 2013-04-24

Issue No.: 0

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Manufacturer: **Bartec GmbH**  
Max-Eyth-Straße 16  
97980 Bad Mergentheim  
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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-2 : 2007-02</b> Edition: 5	Explosive Atmospheres - Part 2 Equipment protection by pressurized enclosure "p"

*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/ExTR13.0051/00](#)

##### Quality Assessment Report:

[DE/TUN/QAR06.0017/05](#)



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## Schedule

### EQUIPMENT:

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

#### Subject and Type

APC - APEX Pressurized Cabinet type \*1)7-37\*2)3-\*3)\*4)\*5)\*6)/\*\*\*\*

1) product marking

0 = APC - APEX Pressurized Cabinet

2) site

1 = equipment group II / IECEx

3) purge system

1 = pressurization with leakage compensation

2 = pressurization with dilution

4) system

0 = no containment

5) size of pressurized enclosure

1 = to 50 dm<sup>3</sup>

2 = over 50 dm<sup>3</sup> to 150 dm<sup>3</sup>

3 = over 150 dm<sup>3</sup> to 300 dm<sup>3</sup>

4 = over 300 dm<sup>3</sup> to 700 dm<sup>3</sup>

5 = over 700 dm<sup>3</sup> to 1440 dm<sup>3</sup>

6 = multi-door variant

6) material pressurized cabinet

0 = sheet steel, coated

1 = stainless steel

2 = plastic (separate certified)

To be continued on page 4

**CONDITIONS OF CERTIFICATION: NO**



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## EQUIPMENT(continued):

### Description

The APC-APEX Pressurized Cabinet type \*7-37\*3-\*\*\*\*/\*\*\*\* is a cabinet-system which is protected by pressurized enclosure "p" for zone 1. It consists of a cabinet with a control unit, pressure regulator with pressure gauge, digital purge valve and / or a proportional purge valve. The cabinet-system can be built in six different enclosure sizes.

The ex p control unit APEX 2003 Fa. Bartec (IECEx BVS 13.0039) will be used.

Optionally following parts can be part of the pressurized cabinet:

- Safety glass window
- Safety foil
- Operating and Viewing panels with or without touch function (touch with a barrier in equipment protection by intrinsic safety "ib").
- Actuating elements (e.g. Pushbutton, lamp modules, and / or illuminated button )
- Keyboards in two variants. Keyboard with metal front or Keyboard with front foil and a barrier in equipment protection by intrinsic safety "ib".

### Parameters

Nominal voltage	max. 690	V
Cabinet volume	max. 6336	dm <sup>3</sup>
IP-protection	≥ IP4X	
Ambient temperature	-20 °C ... +60 °C (T3 - T5)	
	-20 °C ... +40 °C (T6)	
Purging gas pre compression	1 ... 25	bar
Service pressure	2 ... 4	mbar
Purging pressure	1 ... 20	mbar
Minimum overpressure	0.8	mbar