



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 20.0048X	Page 1 of 6	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2023-02-14) Issue 0 (2020-08-03)
Date of Issue:	2025-08-15		
Applicant:	BARTEC GmbH Max-Eyth-Strasse 16 97980 Bad Mergentheim Germany		
Equipment:	APC –APEX resp. SPC – SILAS Pressurized Cabinet type *7-3704-****/****		
Optional accessory:			
Type of Protection:	Intrinsic safety "i"; Pressurized enclosure "p"		
Marking:	APC – APEX Pressurized Cabinet type *7-3704-****/**** Ex pxb/pyb * IIC T5-T3 Gb Ex pxb/pyb * IIIC T95°C-T130°C Db SPC – SILAS Pressurized Cabinet type *7-3704-****/**** Ex pzc ** IIC T5-T3 Gc Ex pzc ** IIIC/IIIB T95°C-T130°C Dc * Optional the marking can be amplified with the following types of protection db, eb, ib, mb, op is, qb, [ia Ga/ Da] and/or [ib Gb/Db]) for using separately certified components. ** Optional the marking can be amplified with the following types of protection dc, ec, ib, ic, mc, op is, qc, [ia *a], [ib *b] and/or [ic *c]) for using separately certified components.		

Approved for issue on behalf of the IECEx
Certification Body:

Dr Michael Wittler

Position:

Deputy Head of Certification Body

Signature:
(for printed version)

Date:
(for printed version)

2025-08-15

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Certificate issued by:

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





IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 20.0048X**

Page 2 of 6

Date of issue: 2025-08-15

Issue No: 2

Manufacturer: **BARTEC GmbH**
Max-Eyth-Strasse 16
97980 Bad Mergentheim
Germany

Manufacturing
locations: **BARTEC GmbH**
Max-Eyth-Strasse 16
97980 Bad Mergentheim
Germany

BARTEC Pte Ltd
63 Hillview Avenue
#07-18 to #07-23 Lam Soon Industrial
Building
Singapore 669569
Singapore

**BARTEC Explosion Proof
Appliances (Shanghai) Co., Ltd.**
New Building 7
No 188 Xinjung Ring Rd.
Caohejing Pujiang Hi-tech park
Minhang District, Shanghai
China

See following pages for more locations

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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-2:2014 Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"
Edition:6

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/ExTR20.0044/01

Quality Assessment Reports:

DE/TUN/QAR06.0017/15
NL/DEK/QAR12.0061/11

IT/CES/QAR09.0003/17
NO/DNV/QAR23.0002/02

NL/DEK/QAR12.0059/08



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 20.0048X**

Page 3 of 6

Date of issue: 2025-08-15

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and Type

APC – APEX resp. SPC – SILAS Pressurized Cabinet type *1)7-3704 *2)*3)*4)*5)/****6)

- 1) product marking
0 = APC – APEX Pressurized Cabinet
A = SPC – SILAS Pressurized Cabinet
- 2) use
1 = EPL Gb / Db | EPL Gc / Dc
2 = EPL Gb | EPL Gc
3 = EPL Db | EPL Dc
- 3) Ex p system
1 = Ex pyb | Ex pzc
2 = Ex pxb
- 4) size of pressurized enclosure
1 = Size I to 50 dm³
2 = Size II over 50 dm³ to 150 dm³
3 = Size III over 150 dm³ to 300 dm³
4 = Size IV over 300 dm³ to 700 dm³
5 = Size V over 700 dm³ to 1440 dm³
6 = Size VI over 1440 dm³ to 5405 dm³
7 = Size VII over 5405 dm³ to 9370 dm³
8 = Size VIII over 9370 dm³ to 13365 dm³
9 = Size IX over 13365 dm³ to 17300 dm³
- 5) material pressurized cabinet
1 = sheet steel, coated
2 = stainless steel
3 = aluminium (separate certified)
4 = plastic (separate certified)
- 6) no influence on explosion protection

Description

The APC-APEX Pressurized Cabinet type 07-3704-****/**** is a cabinet-system which is protected by pressurized enclosure “p” for zone 1/21. 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 nine different enclosure sizes.

The BARTEC Ex p control unit APC (IECEx BVS 19.0038X) in combination with Ex p control unit APEX (IECEx BVS 19.0032U) will be used. Alternatively the Ex p control unit APEX (IECEx BVS 19.0032U) can be mounted directly into the Ex p housing.

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”.
- Direct installation of Ex components in the Ex p housing, which are certified separately

SPECIFIC CONDITIONS OF USE: YES as shown below:

The specification of use for the separately certified equipment have to be observed by the user.



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 20.0048X**

Page 4 of 6

Date of issue: 2025-08-15

Issue No: 2

Equipment (continued):

- The SPC – SILAS Pressurized Cabinet type A7-3704-****/**** is a cabinet-system which is protected by pressurized enclosure “p” for zone 2/22. It consists of a cabinet with a control unit, pressure regulator with pressure gauge, digital purge valve. The cabinet-system can be built in nine different enclosure sizes.

The BARTEC Ex p control unit SILAS (IECEx BVS 19.0038X) in combination with Ex p control unit SILAS (IECEx BVS 19.0032U) or BARTEC Ex p control unit SILAS (TÜV 09 ATEX 553359) will be used. Alternatively the Ex p control unit APEX (IECEx BVS 19.0032U) can be mounted directly into the Ex p housing.

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” or “ic”
- Direct installation of Ex components in the Ex p housing, which are certified separately

Parameters

Nominal voltage	max. 10 kV ± 10 %
Nominal current	max. 10 kA
Cabinet volume	max. 17300 dm ³
IP-protection	≥ IP 4x
Ambient temperature	max. -55 °C ... +70 °C (T3 – T5)
(depends on the used empty enclosure and mounting equipment)	-20 °C ... +40 °C (T6)
Purging gas pre compression	1 ... 25 bar
Service pressure	2 ... 4 mbar (or 50 ... 200 mbar) (depends on the application)
Purging pressure	1 ... 20 mbar
Minimum overpressure	0.8 mbar



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 20.0048X**

Page 5 of 6

Date of issue: 2025-08-15

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Updating of the manufacturer location and quality assesment reports.



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 20.0048X**

Page 6 of 6

Date of issue: 2025-08-15

Issue No: 2

Additional manufacturing locations:

**Bartec Thermal Control and Safety System
(Pinghu) Co., Ltd.**
4# Plant No. 1555 Xingping Fourth Road
Pinghu, Jiaxing ZheJiang
China

BARTEC F.N. S.R.L.
via M. Pagano, 2,3,5,6,7,8,9
I - 20090 Trezzano sul Naviglio (MI)
Italy

BARTEC AS
Vestre Svanholmen 24
Sandnes 4313
Norway