

Translation

Type Examination Certificate

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

Type Examination Certificate Number: **BVS 20 ATEX E 061 X** Issue: **01**

Equipment: **SPC - SILAS Pressurized Cabinet type *7-3704-****/******

Manufacturer: **BARTEC GmbH**

Address: **Max-Eyth-Str. 16, 97980 Bad Mergentheim, Germany**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 20.2084 EU.

This issue of the Type Examination Certificate replaces the previous issue of the Type Examination Certificate BVS 20 ATEX E 061 X including supplement 1.

The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018
EN 60079-2:2014
EN 60079-11:2012

General requirements
Pressurized enclosure "p"
Intrinsic Safety "i"

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:



II 3G Ex pzc ** IIC T5-T3 Gc
II 3D Ex pzc ** IIIC/IIIB T95°C-T130°C Dc

*** 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.

DEKRA Testing and Certification GmbH
Bochum, 2023-02-09

Signed: Dr. Rolf Krökel

Managing Director



13 Appendix

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15 Product description

15.1 Subject and type

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

1) product marking

0 = A = SPC – SILAS Pressurized Cabinet

2) use

1 = EPL Gc / Dc

2 = EPL Gc

3 = EPL Dc

3) Ex p system

1 = Ex pzc

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

15.2 Description

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 (BVS 19 ATEX E016 X) in combination with Ex p control unit (BVS 19 ATEX E032 U) or BARTEC Ex p control unit SILAS (TÜV 09 ATEX 553359) will be used. Alternatively the Ex p control unit (BVS 19 ATEX E032 U) 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

Reason of the supplement:

- Alternatively, a slotprinter can be used
- Alternatively, separately certified devices can be used

15.3 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)
Purging gas pre compression	-20 °C ... +40 °C (T6) 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

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17 Specific Conditions of Use

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

18 Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9.

19 Remarks and additional information

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH
Bochum, 2023-02-09
BVS-Pz/Mu A 20220967 / 342875700



Managing Director