



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 IBE 16.0036U Issue No: 0 Certificate history:
Issue No. 0 (2016-11-22)

Status: **Current** Page 1 of 4

Date of Issue: **2016-11-22**

Applicant: **BERNSTEIN AG**
Hans-Bernstein-Straße 1
32547 Porta Westfalica
Germany

Equipment: **Empty enclosure - polyester type CP* - ...U**
Optional accessory:

Type of Protection: **increased safety "e" and protection by enclosure "t"**

Marking:
Ex eb IIC Gb
Ex tb IIIC Db

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

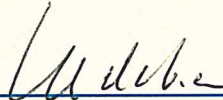
Prof. Dr. Tammo Redeker

Position:

Head of Certification Body

*Signature:
(for printed version)*

Date:



2016-11-22

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.

Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany



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Manufacturer: **BERNSTEIN AG**
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32547 Porta Westfalica
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 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

*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/IBE/ExTR14.0052/00

Quality Assessment Report:

DE/IBE/QAR15.0008/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The empty enclosures type CP*...U are made of polyester and may be used stationary in Zones 1 and 2 as well as 21 and 22. There are two different variations, one dissipative made of black plastic and one insulating variation made of grey plastic. The enclosures may be provided with hinges. Gaskets made of NBR are used for sealing the screws at the hinges

The enclosure may be equipped with separately certified Ex-components, such as plug-in connectors, modular terminal blocks, connecting terminals and switches.

Further identically constructed enclosures may be manufactured with-in between sizes.

The operating temperature range depends on used material of gasket, see below.

Technical data:

Service temperature range	-60 °C up to +135 °C (silicone) -35 °C up to + 85 °C (EPDM) -20 °C up to + 80 °C (NBR) (*)
Degree of protection (according to IEC 60529)	at least IP64 (maximum IP66)
length	minimum 80 mm maximum 400 mm
width	minimum 55 mm maximum 165 mm
height	minimum 75 mm maximum 405 mm

(*) The gasket made of NBR is only used at the hinges.

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT (continued):

Schedule of limitations:

- The service temperature range has to be considered and may not exceed the listed values depending on the material of the gasket.
- At ambient temperatures below -55 °C the enclosure has to be installed protected against mechanical loads.
- The empty enclosures type CPG-...U made of grey plastic may not be installed in areas where charging processes may occur.
The surface has to be cleaned with a damp cloth.