



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 BVS 13.0039 issue No.: 0 Certificate history:

Status: Current

Date of Issue: 2013-03-21 Page 1 of 4

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

Electrical Apparatus: Control Unit APEX 2003 Type 07-3711-2**/****
Optional accessory:

Type of Protection: Equipment protection by flameproof enclosures "d", Equipment protection by intrinsic safety "i", Equipment protection by pressurized enclosure "p", Equipment with equipment protection level (EPL) Ga, Equipment protection by increased safety "e"

Marking: Ex de ib [ja Ga px] IIC T6/T4 Gb or
Ex de [ja Ga px] IIC T6 Gb

Approved for issue on behalf of the IECEx
Certification Body:

Dr. F. Eickhoff

Position:

Deputy Head of Certification Body

Signature:
(for printed version)

Date:

2013-03-21

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:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
DEKRA EXAM GmbH



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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:

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-2 : 2007-02 Edition: 5	Explosive Atmospheres - Part 2 Equipment protection by pressurized enclosure "p"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR13.0040/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0017/04](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and type

Control unit APEX 2003 type 07-3711-*2**/****

Asterisk Description

- | | | |
|-----|---|------------------------------------|
| 1 | Variant | |
| | 1 | : Standard |
| | 6 | : Motor purge control system (MPC) |
| 2 | Sensor module | |
| | 0 | : external |
| | 1 | : 0 ... 25 mbar |
| | 2 | : 0 ... 300 mbar |
| | 3 | : 0 ... 1000 mbar |
| 3 | Without influence to the explosion protection | |
| 4 | Rated voltage | |
| | 1 | : AC 230 V |
| | 2 | : AC 115 V |
| | 4 | : DC 24 V |
| 5-7 | Without influence to the explosion protection | |

CONDITIONS OF CERTIFICATION: NO



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EQUIPMENT(continued):

Description

The control unit APEX 2003 type 07-3711-*2**/**** is designed to built up an explosion proof electrical equipment in type of protection Pressurized Enclosure, that will be certified separately.

The control electronic type 17-5522-*2*1/**** that is part of the complete control unit type 07-3711-*2**/**** is built in into a separately certified enclosure according to IECEx PTB 11.0082U in type of protection Flameproof Enclosure. That flameproof enclosure is built in into a separately certified enclosure in type of protection Increased Safety. Inside the surrounding enclosure in type of protection Increased Safety are also mounted separately certified sensor modules and other certified equipment. The sensor module type 17-51P2-****/**** according to IECEx BVS 09.0055X can optionally be mounted separately to the surrounding enclosure.

The functional safety of the control unit APEX 2003 type 07-3711-*2**/**** is tested according to DIN EN ISO 61511-1 and DIN EN ISO 61511-2 "Safety instrumented systems for the process industry sector". The control unit fulfils the requirements of category 3 of the standards. Functional safety was investigated for ambient temperatures up to 40 °C. To ensure functional safety for the unit APEX 2003 type 07-3711-62**/**** and ambient temperatures up to 50 °C the described cooling measures are necessary not to exceed the internal housing temperature of 40 °C. The proper working of the cooling measures is indicated and is tested annually.

The motor purge control system consists of the control unit APEX 2003 with all non electrical components which are built into or onto an enclosure.

Ratings

See Annex