# 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 IBE 12.0031X** | Page 1 of 6 | Certificate history: |
| Status: | **Current** | Issue No: 4 | Issue 3 (2023-07-28)<br>Issue 2 (2016-10-12)<br>Issue 1 (2016-01-27)<br>Issue 0 (2013-07-17) |
| Date of Issue: | 2024-07-11 | | |

Applicant: **BARTEC GmbH**
Max-Eyth-Str. 16, 97980 Bad Mergentheim
**Germany**

Equipment: **Measuring, Control and Switchgear combination type 07-3***-****/**** and junction box type 07-3T**-****/****

Optional accessory:

Type of Protection: **Different**

Marking: Type 07-31**-****/****

**Ex db eb ia ib [ib] ma mb op is [op is] op pr [pxb] [pyb] q 60079-30-1 [60079-30-1] IIA, IIB, or IIC T6, T5, T4, or T3 Gb**

**Ex db eb ia ib [ia Ga] ma mb op is [op is] op pr [pxb] [pyb] q 60079-30-1 [60079-30-1] IIA, IIB, or IIC T6, T5, T4, or T3 Gb**

**Ex tb ia ib [ib] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB, or IIIC, T80 °C, T95 °C, or T130 °C Db**

**Ex tb ia ib [ia Da] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB, or IIIC, T80 °C, T95 °C, or T130 °C Db**

Typ 07-3S**-****/****

**Ex tb ia ib [ib] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB, or IIIC, T80 °C, T95 °C, or T130 °C Db**

**Ex tb ia ib [ia Da] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB, or IIIC, T80 °C, T95 °C, or T130 °C Db**

Typ 07-3T**-****/****

**Ex eb ia ib IIA, IIB, or IIC T6, T5, T4, or T3 Gb**

**Ex tb ia ib IIIA, IIIB, or IIIC, T80 °C, T95 °C, or T130 °C Db**

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

Position: **Head of department Certification Body**

Signature: (for printed version)

Date: (for printed version) 11.07.2024

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 www.iecex.com or use of this QR Code.

Certificate issued by:

**IBExU Institut für Sicherheitstechnik GmbH**
**Fuchsmühlenweg 7**
**09599 Freiberg**
**Germany**

# IECEx Certificate of Conformity



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

Manufacturing locations:

**BARTEC GmbH**
Max-Eyth-Str. 16
97980 Bad Mergentheim
**Germany**

**BARTEC F.N. S.R.L.**
Via M. Pagano, 3
I - 20090 Trezzano sul Naviglio (MI)
**Italy**

**BARTEC TECHNOR AS**
Vestre Svanholmen 24
SANDNES 4313
**Norway**

**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<br>Edition:7.0 | Explosive atmospheres - Part 0: Equipment - General requirements |
| IEC 60079-1:2014<br>Edition:7.0 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| IEC 60079-11:2011<br>Edition:6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |
| IEC 60079-18:2017<br>Edition:4.1 | Explosive atmospheres - Part 18: Protection by encapsulation "m" |
| IEC 60079-2:2014<br>Edition:6 | Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p" |
| IEC 60079-28:2015<br>Edition:2 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation |
| IEC 60079-31:2013<br>Edition:2 | Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" |
| IEC 60079-5:2015<br>Edition:4.0 | Explosive atmospheres –Part 5: Equipment protection by powder filling “q” |
| IEC 60079-7:2017<br>Edition:5.1 | Explosive atmospheres - Part 7: Equipment protection by increased safety "e" |
| IEC/IEEE 60079-30-1:2015<br>Edition:1.0 | Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements |

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 Reports:

DE/IBE/ExTR12.0015/00
DE/IBE/ExTR12.0015/01
DE/IBE/ExTR12.0015/02
DE/IBE/ExTR12.0015/03
DE/IBE/ExTR12.0015/04

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Quality Assessment Reports:

DE/TUN/QAR06.0017/14
FR/INE/QAR17.0001/06
IT/CES/QAR09.0003/16
IT/CES/QAR12.0006/10
NL/DEK/QAR11.0034/07
NL/DEK/QAR12.0059/08
NL/DEK/QAR12.0061/10
NO/NEM/QAR07.0003/13

# IECEx Certificate of Conformity



**EQUIPMENT:**
Equipment and systems covered by this Certificate are as follows:

The Measuring, Control and Switchgear combination Type 07-3***-****/**** consists of one or several housings made of polyester resin, stainless steel or aluminium. iType 07-31**-****/**** complies with the requirements of type of protection increased safety “e” and protection by enclosure “t”. Type 07-3S**-****/**** complies with the requirements of type of protection “t”. The enclosures are designed to mount measuring, control and switching devices as well as terminals for intrinsically safe and non-intrinsically safe circuits and can be equipped with actuating elements, indicator lights and inspection windows if required. The Ex-protected switchgear combination is used to control electrical equipment and/or to distribute electrical energy. Connection is made by means of either flanged enclosures or by Ex-protected cable entries. The empty enclosures as well as all the internally and externally fitted Ex Products are separately tested and certified. The use of industrial components in combination with temperature limiter is permitted in type 07-3S**-****/****.

Type 07-3T**-****/**** is a junction box which is used for connecting and branching incoming and outgoing cables and wires by means of rails-mounted connection terminals or terminal blocks.

The Measuring, Control and Switchgear combination is intended for the use in areas requiring equipment of EPL Gb or Db.

Technical data:

| | |
|---|---|
| Ambient temperature range: | -60 °C to +80 °C (*) |
| Degree of protection: | ≥IP54 acc. to IEC 60529 for explosive gas atmospheres<br>≥IP6X acc. to IEC 60529 for explosive dust atmospheres |
| Rated voltage | max. 1000 V (*) |
| Rated current | max. 690 A (*) |
| Rated terminal cross section | max. 400 mm² (*) |
| (*) The rated values are maximum values. The respective built-in components cause the actual electrical values. The manufacturer specified the final rated values, within the limits of the maximum values, and depending on the supply conditions, mode of operation, equipment protection level and so on.<br>The circuits must be interconnected in accordance with the requirements of the current standard IEC 60079-14. For intrinsically safe circuits, the requirements of IEC 60079-25 also apply. | |

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

- When a polyamide hose is used for an application the temperature range is limited to -20 °C to +60 °C.
- It may be a potential risk of electrostatic charges from an Ex Equipment having a touch screen or plastic window in the enclosure; refer to the installation instruction manual.
- When the service temperature is higher than 70 °C at the entry point or 80 °C at the branching point of the conductors, the switchgear combination is marked accordingly. Suitable cables and cable glands have to be used.

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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**
The manufacturing location BARTEC Middle East FZE has been removed.

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Additional manufacturing locations:

**BARTEC NEDERLAND B.V.**
Boelewerf 25
2987 VD Ridderkerk
**Netherlands**

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

**BARTEC MIDDLE EAST LLC**
Building N° 3501
Hussain Bin Ali Street
Qatif Industrial Area
3685 AL KHOBAR
Saudi Arabia
**Saudi Arabia**

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

**FENEX**
Via Carducci, 16
I - 34070 Moraro (GO)
**Italy**