



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 19.0037X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2019-06-17)

Status: **Current** Issue No: 1

Date of Issue: 2022-12-05

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

Equipment: **Ex p Operator Panel type 17-51P5-*111**

Optional accessory:

Type of Protection: **Intrinsic Safety "i"**

Marking: **Ex ib IIC T4 Gb**

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)

2022-12-05

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:

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

 **DEKRA**
On the safe side.



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

Manufacturing
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

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/ExTR19.0035/01](#)

Quality Assessment Report:

[DE/TUN/QAR06.0017/14](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Model type code:

See Annex

General product information:

The Ex p-Operator Panel serves as a visualization and programming unit for APEX / SILAS control units in hazardous areas.

For visualization it contains LEDs for system states and a plain text display. Furthermore, push buttons are available for programming setting values.

For programming or visualisation it can be permanently connected to the APEX / SILAS control unit or connected in a remote version for a limited time.

The Ex p-Operator Panel type 17-51P5-*111 can be used for temperature class T4 and is intrinsically safe supplied by the Control unit type 17-5*12-***0/**** at terminal block X17 on the HMI connection IECEX BVS 19.0038X.

The Ex p-Operator Panel type 17-51P5-0111 is mounted on a protective housing with $IP \geq 54$ and supplied via a plug with connecting cable for connection of an external intrinsically safe circuit. The corresponding cable gland HSK-M-EMV-Ex is certified separately (IECEX BVS 07.0019X). The maximum cable length is 2 m. At the end of the connecting cable is mounted a plug Ex-Link Plug GHG5717608R3001, 4-pin (IECEX BKI 06.0005X).

The Ex p-Operator Panel type 17-51P5-1111 is equal to the type 17-51P5-0111 with the difference that the p-Operator Panel has brackets for fixed mounting and has a permanently connected cable with ferrules for a fixed connection to the corresponding terminals.

The Ex p-Operator Panel type 17-51P5-2111 is designed without protective housing and is mounted directly in the Ex p switch cabinet and has a permanently connected cable with ferrules for a fixed connection to the corresponding terminals.

The maximum cable length is 2 m.

Ratings:

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Electrostatic charging has to be avoided.
2. The Ex p-Operator Panel type 17-51P5-2111 has to be installed into a suitable enclosure with IP20 minimum.
3. The metallic housing and the plug of the p-Operator Panel Ex p type 17-51P5-0111 have to be included in the local equipotential bonding for electrostatic reasons. The metallic housing of the p-Operator Panel Type 17-51P5-1111 has to be included separately in the local equipotential bonding for electrostatic reasons.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Update of the standard IEC 60079-0
- Addition of a Specific Condition of Use

Annex:

[BVS_19_0037X_BARTEC_Annex_Issue1.pdf](#)



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Annex
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Model type code:

Type 17-51P5-*111

- 0: Ex p-Operator Panel is mounted on a suitable housing
- 1: Ex p-Operator Panel is mounted on a suitable housing with mounting brackets
- 2: Ex p-Operator Panel is mounted directly in the Ex p control cabinet

Ratings:

1 Electrical Parameters

Maximum input voltage	U_i	3.61	V
Maximum input current	I_i	1	A
Maximum stationary input current		350	mA
Maximum input power	P_i	1.25	W
Maximum internal capacitance	C_i	13.9	μF
Maximum internal inductance	L_i		negligible

2 Thermal Parameters

Temperature Class	T4	$-20\text{ }^\circ\text{C} \leq T_{\text{amb}} \leq +50\text{ }^\circ\text{C}$
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