

Translation

EU-Type Examination Certificate

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 19 ATEX E 017 X**

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

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, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 19 2073 EU.

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

EN 60079-0:2012 + A11:2013 **General requirements**
EN 60079-11:2012 **Intrinsic Safety "i"**

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-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 2G Ex ib IIC T4 Gb**

DEKRA Testing and Certification GmbH
Bochum, 2019-05-27

Signed: Jörg-Timm Kilisch

Managing Director

13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 19 ATEX E 017 X

15 **Product description**

15.1 **Subject and type**

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

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

15.2 **Description**

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 visualization 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 (BVS 19 ATEX E 015 X and BVS 19 ATEX E 016 X).

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. The maximum cable length is 2 m. At the end of the connecting cable is mounted a plug Ex-Link Plug GHG5717608R3001, 4-pin.

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.

15.3 Parameters

15.3.1 Electrical Parameters

Maximum input voltage	U _i	DC	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

15.3.2 Thermal Parameters

Temperature Class	T4	-20 °C ≤ T _{amb} ≤ +50 °C
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17 Special Conditions for Use

- 17.1 Electrostatic charging has to be avoided.
- 17.2 The Ex p Operator Panel type 17-51P5-2111 has to be installed into a suitable enclosure with a degree of protection IP20 minimum.

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 Drawings and Documents

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, 2019-05-27
BVS-Fro/Mu A 20150938



Managing Director