

Translation

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EU-Type Examination Certificate Supplement 3

Change to Directive 2014/34/EU

2

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

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EU-Type Examination Certificate Number: **DMT 02 ATEX E 121 X**

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Product: **I/P Signal Converter type TEIP11 and TEIP11-PS**

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Manufacturer: **ABB AG**

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Address: **Schillerstraße 72, 32425 Minden, Germany**

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This supplementary certificate extends EC-Type Examination Certificate No. DMT 02 ATEX E 121 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

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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 02.2067 EU.

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

EN IEC 60079-0:2018

General requirements

EN 60079-1:2014

Flameproof enclosure "d"

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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.

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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.

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The marking of the product shall include the following:

 **II 2G Ex db IIC T4 / T5 / T6 Gb**

DEKRA Testing and Certification GmbH
Bochum, 2021-12-15

Signed: Jörg-Timm Kilisch

Managing Director

13 **Appendix**

14 **EU-Type Examination Certificate**

**DMT 02 ATEX E 121 X
Supplement 3**

15 **Product description**

15.1 **Subject and type**

I/P Signal Converter type TEIP11 and TEIP11-PS

15.2 **Description**

Reasons for the supplement:

- Change to Directive 2014/34/EU
- Update to the current version of the standard
- Changing the type name
- Change of manufacturer name
- Modification of the documentation
- Modification of the parameters

Description of the equipment:

The I/P signal converter serves for the transformation of an injected DC current into a proportional pressure. As pressure media neither flammable gases nor Oxygen or Oxygen enriched gas mixtures are used. Type TEIP11-PS has a booster stage and type TEIP11 has no booster stage.

Optionally, a control unit is installed which complies with the type of protection Intrinsic Safety (II 2G Ex ia IIC T6/T4 Gb; TÜV 99 ATEX 1487 X).

15.3 **Parameters**

15.3.1 **Electrical data (non-intrinsically safe)**

Nominal current ≤ 50 mA
 Input resistance = 260 Ω at 20°C (68°F), T_k + 0.4 % / K

Electrical data (intrinsically safe) As per TÜV 99 ATEX 1487 X (supplement 1-3)

15.3.2 **Pneumatic data**

TEIP11
 Supply (compressed air) ≤ 10 bar
 Output signal ≤ 1 bar

TEIP11-PS
 Supply (compressed air) ≤ 2.5 bar
 Output signal ≤ 2 bar

15.3.3 **Thermal data (non-intrinsically safe)**

Maximum input current 50 50 50 mA
 Ambient temperature range - 40 °C up to 55 70 85 °C
 Temperature class T6 T5 T4

Thermal data (intrinsically safe) As per TÜV 99 ATEX 1487 X (supplement 1-3)

16 **Report Number**

BVS PP 02.2067 EU, as of 2021-12-15

17 **Special Conditions for Use**

The I/P signal converter must not be installed in areas where processes with high electrostatic charges occur.

Variants with intrinsically safe control unit shall not be used intrinsically safe once they have been used in type of protection flameproof enclosure from a non-intrinsically safe supply. The Ex-marking of the unit must be updated accordingly.

The I/P signal converter is designed for use at an ambient temperature range of -40 °C up to 85 °C at maximum.

If the I/P signal converter is used at an ambient temperature above 60 °C or below -20 °C, cable glands and cables approved for a service temperature corresponding to the maximum ambient temperature increased by 10 K or corresponding to the minimum ambient temperature shall be used.

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, 2021-12-15
BVS-Kir/MGR A20210222



Managing Director