Translation

1 # EU-Type Examination Certificate

2 **Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014**

3 EU-Type Examination Certificate Number: **BVS 05 ATEX E 095** Issue: **01**

4 Equipment: **CommuBox type FXA291**

5 Manufacturer: **Endress+Hauser Conducta GmbH+Co. KG**

6 Address: **Dieselstr. 24, 70839 Gerlingen, Germany**

7 This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

8 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 06.2026 EU.

This issue of the EU-Type Examination Certificate replaces the previous issue of the EC-Type Examination Certificate BVS 05 ATEX E 095 including supplements 1 and 2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018	**General requirements**
EN 60079-11:2012	**Intrinsic Safety "i"**

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

II (1)G [Ex ia Ga] IIC
II (1)D [Ex ia Da] IIIC

DEKRA Testing and Certification GmbH
Bochum, 2022-12-13

Signed: Dr. Rolf Krökel

Managing Director

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13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 05 ATEX E 095 Issue 01

15 **Product description**

15.1 **Subject and type**

CommuBox type FXA291

15.2 **Description**

With this issue the certificate is changed to Directive 2014/34/EU.
(Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

Reason for this issue:

Change to Directive 2014/34/EU

The CommuBox type FXA291 was tested in accordance to the standards listed on page 1.

The electronics of the CommuBox type FXA291 was modified.

The manufacturer's name has changed to Endress+Hauser Conducta GmbH+Co. KG.

Description of Product:

The CommuBox type FXA291 is used for transmission of data and for connection to the CDI-service interface (Common Data Interface) of Endress+Hauser devices.

The CommuBox type FXA291 is located outside the hazardous area; the intrinsically safe data circuit can be led in the hazardous area.

The connection of the intrinsically safe data circuit to the CDI-service interface of corresponding equipment can be assessed separately based on the parameters listed below.

15.3 **Parameters**

15.3.1 Not intrinsically safe data circuit, connection via permanently connected cable ($L \leq 5$ m) with USB-connector

Maximum voltage	U_m	AC	260	V

15.3.2 Intrinsically safe data circuit, connection via permanently connected cable ($L \leq 0.6$ m) with a connector in the type of protection Ex ia IIC, Ex ia IIIC.

Maximum output voltage	U_o	DC	7	V
Maximum output current	I_o		597	mA
Maximum output power	P_o		583	mW
Maximum external capacitance	C_o		10	µF
Maximum external inductance	L_o		60	µH
Maximum internal capacitance	C_i		4.1	µF
Maximum internal inductance	L_i		0.4	µH

The connection of a voltage of U_m until 260 VAC not affect the intrinsic safety relevant components, therefore, this circuit can be connected to not intrinsically safe interfaces outside of the hazardous area.

15.3.3 Ambient temperature range $-20\ °C \leq T_a \leq +60\ °C$

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16 **Report Number**

BVS PP 06.2026 EU, as of 2022-12-13

17 **Specific Conditions of Use**

None

18 **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

19 **Remarks and additional information**

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, 2022-12-13
BVS-Rip/MGR A 20210804 / 342394800

Managing Director

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