Translation

(1) # EU-Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**

(3) **Certificate Number** **TÜV 99 ATEX 1426 X** **Issue:** 01

(4) for the product: Bus Interface 8 Analog out type 17-6583-*6**/****

(5) of the manufacturer: **BARTEC GmbH**

(6) Address: Max-Eyth-Str. 16
97980 Bad Mergentheim
Germany

Order number: 8003062991

Date of issue: See signature

(7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 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 ATEX Assessment Report No. 23 203 357324.

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

EN IEC 60079-0:2018/AC:2020-02 **EN 60079-11:2012**

except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign ”X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for Use specified in the schedule to this certificate.

(11) 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 equipment. These are not covered by this certificate.

(12) The marking of the product shall include the following:

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

TÜV NORD CERT GmbH, Am TÜV 1, 45307 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body

TÜVNORD Digital unterschrieben von Roder Christian Datum: 2025.01.31 14:43:26 +01'00'

Hanover office, Am TÜV 1, 30519 Hannover, Tel. +49 511 998-61455, Fax +49 511 998-61590

**This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH**

(13) S C H E D U L E

(14) EU-Type Examination Certificate TÜV 99 ATEX 1426 X Issue 01

(15) **Description of product**

The Bus interface 8 analogues out type 17-6583-*6**/**** used for the safe galvanic isolation of the intrinsically safe signal circuits from the non-intrinsically safe supply circuits, from the non-intrinsically safe Interface circuits.
The Bus interface 8 analogues out type 17-6583-*6**/**** located outside of the hazardous explosive area.
The intrinsically safe signal circuits are safely galvanically isolated from the non-intrinsically safe circuits up to a voltage of 375 V and the intrinsically signal safe circuits are connected with one another galvanically.

Type code:

Type no.	**1**	**7**	**-**	**6**	**5**	**8**	**3**	**-**	*****	**6**	*****	*****	**/**	*****	*****	*****	*****
Code no.	**A**	**B**		**C**	**D**	**E**	**F**		**G**	**H**	**I**	**J**		**K**	**L**	**M**	**N**

Code	***Code for***	***Variations***	***Description***
A, B	Product sector	17	Electronical device
C	Product group	6	Transmitter / Bus module
D	Operating place	5	Location outside the hazardous area, Associated equipment
E	Type of device	8	Euro board / board module
F	Design	3	Bus module / board device
G	Bus version	1	Interbus
		3	Profibus
H	Device version	6	8 Analog out
I - N	Number or letter for characteristics without influence on the explosion protection		

Thermal Data:

Ambient temperature range: -25 °C ≤ T_a ≤ +85 °C

Electrical data:

Supply circuit (Connection X4.23 (L-; 0V), X4.24 (L+; 24V)

Only for the connection to a non-intrinsically safe circuit with following maximum values:

U = 20 to 30 VDC, ca 1.8 W
U_m = 253 V

Supply circuit 2 (connection X4.19 (U-; 0V), X4.20 (U+; 24V))

Only for the connection to a non-intrinsically safe circuit with following maximum values:

U = 20 to 30 VDC, ca 5.7 W
U_m = 253 V

**This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH**

Schedule to EU-Type Examination Certificate TÜV 99 ATEX 1426 X Issue 01

PA (Connection X4.21, X4.22)	For connection to the potential equalization
Interface circuit (for type 17-6583-36**/****) (connection X4.1 (B) and X4.2 (A) or X4.5 (B) and X4.6 (A) or X4.8 (B) and X4.9 (A))	Only for the connection to a non-intrinsically safe circuit with following maximum values: U ≤ 30 VDC U_m = 253 V

The shield of the bus line is connected to X4.3 and X4.4. The connections X4.16 and X4.17 are either bridged or not occupied.

Interface circuits (for type 17-6583-16**/****) (connection X4.1 to X4.5 and X4.7 to X4.11)	Only for the connection to a non-intrinsically safe circuit with following maximum values: U ≤ 30 VDC U_m = 253 V

The shield of the bus line is connected to X4.6 and X4.12. The connections X4.16 and X4.17 resp. X4.13 and X4.14 are either bridged or not occupied.

Output signal circuit (connections X1.1 to X1.16)	In type of protection intrinsic safety Ex ia IIC resp. IIB resp. IIIC with following maximum values per circuit: U_o = 21.4 V I_o = 93.9 mA P_o = 503 mW Characteristic line: linear

The maximum permissible values for the external capacitance C_o and the inductance L_o are listed in the following table and only apply for the single occurrence of the capacitance C_o or the inductance L_o:

	Ex ia IIC		**Ex ia IIB Ex ia IIIC**
L_o [mH]	3.4	L_o [mH]	13.9
C_o [µF]	0.176	C_o [µF]	1.2

For the simultaneous occurrence of external C_o and inductance L_o, the maximum permissible values for the external inductance L_o and the external capacitance C_o have to be taken from the following table:

Ex ia IIC	L_o [mH]	3.4	1.0	0.5	0.2	0.1	0.05
	C_o [nF]	92	96	110	140	179	179
Ex ia IIB Ex ia IIIC	L_o [mH]	17	10	0.5	0.2	0.1	0.05
	C_o [µF]	0.48	0.67	0.73	0.89	1.1	1.22

**This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH**

Schedule to EU-Type Examination Certificate TÜV 99 ATEX 1426 X Issue 01

(16) Drawings and documents are listed in the ATEX Assessment Report No. 23 203 357324.

(17) **Specific Conditions for Use**
The equipment has to be erected in such a way, that a degree of protection of at least IP20 according to EN 60529 is reached. The installation into enclosure shall be carried out in such a way that the ambient temperature during the use is not exceeded.

(18) **Essential Health and Safety Requirements**

no additional ones

- End of EU-Type Examination Certificate -

**This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH**