

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 98 ATEX 1367 X **issue:** 00
(4) for the product: Profibus Interface 8 Transmitter in type 17-6583-34**/****
(5) of the manufacturer: BARTEC GmbH
(6) Address: Max-Eyth-Str. 16
97980 Bad Mergentheim
Deutschland

Order number: 8000460907
Date of issue: 2016-12-20


- (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. 16 203 182331.
(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013

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:

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

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 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 deputy head of the notified body


Roder

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

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(13) SCHEDULE

(14) EU-Type Examination Certificate No. TÜV 98 ATEX 1367 X issue 00

(15) Description of product

The Profibus Interface 8 Transmitter in type 17-6583-34**/**** serves to safely electrically isolate the intrinsically safe signal circuit from the non-intrinsically safe supply circuit, the non-intrinsically safe Interface circuits as well as the non intrinsically-safe output circuit.

Type code:

Profibus Interface 8 Transmitter in type 17-6583-34**/****

Type no.	17	-	6	5	8	3	-	3	4	*	*	/	*	*	*	*
Code no.	A		B	C	D	E		F	G	H	I		J	K	L	M

Code	Code for:	Variation:	Description
A	Product sector	17	Electronical device
B	Product group	6	Transmitter / Bus module
C	Operating place	5	Location outside the hazardous area, Associated equipment
D	Type of device	8	Euro board / board module
E	Design	3	Bus module / board device
F	Bus version	3	Profibus
G	Device version	4	8 Transmitter in
H - M	And letter for characteristics without influence to the explosion protection	-	-

Electrical Data:

Supply circuit
(Connection X4.23, X4.24
and X4.22 (PE))

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

$U_N = 24 \text{ VDC}$ (max. 30 VDC), ca 7.6 W
 $U_m = 253 \text{ V}$

Interface circuit
(Connection X4.1, X4.2, X4.5,
X4.6, X4.8 and X4.9)

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

$U_N < 5 \text{ VDC}$
 $U_m = 253 \text{ V}$

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

Schedule to EU-Type Examination Certificate No. TÜV 98 ATEX 1367 X issue 00

Output circuit
(Connection X4.19,
X4.18 and X4.20)

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

$U_N = 230 \text{ VAC}$, $I = 3 \text{ A}$, $S = 100 \text{ VA}$
 $U_m = 253 \text{ V}$

Signal circuit
(Connections X1.1
up to X1.16)

in type of protection intrinsic safety Ex ia IIC/IIB
resp. Ex ia IIIC/IIIB
with following maximum values per circuit:

$U_o = 26 \text{ V}$
 $I_o = 84.3 \text{ mA}$
 $P_o = 549 \text{ mW}$
Characteristic line: linear

The effective internal capacitance and inductance are
negligibly small.

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	2.7 mH	L_o	1 mH	L_o	0.5 mH	L_o	0.2 mH
	C_o	43 nF	C_o	61 nF	C_o	78 nF	C_o	99 nF
Ex ia IIB / IIIB / IIIC	L_o	19 mH	L_o	1.0 mH	L_o	0.2 mH	L_o	0.1 mH
	C_o	340 nF	C_o	410 nF	C_o	640 nF	C_o	770 nF

Thermal Data:

Ambient temperature range: $-25 \text{ °C} \leq T_a \leq +75 \text{ °C}$

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.

(16) Drawings and documents are listed in the ATEX Assessment Report No. 16 203 182331

(17) Specific Conditions for Use

The Profibus Interface 8 Transmitter in type 17-6583-34**/**** has to be erected in such a way, that a
degree of protection of at least IP20 according to EN 60529 is reached.

(18) Essential Health and Safety Requirements

No additional ones