

Translation

(1) **EC-Type Examination Certificate**

TÜV NORD

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 94/9/EC**



- (3) **Certificate Number** TÜV 07 ATEX 553276

- (4) for the equipment: Overvoltage Protection Devices
B62-36G type ÜSB62-36G.C_* and
B62-30W type ÜSB62-30W.C_*

- (5) of the manufacturer: VEGA Grieshaber KG

- (6) Address: Am Hohenstein 113
D-77761 Schiltach

Order number: 8000553276

Date of issue: 2007-02-06

- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV NORD CERT GmbH, notified body No. 0044 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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. 07203553276.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2004 EN 50020:2002 EN 60079-26:2004
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. 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 equipment or protective system must include the following:

II (1) 2 G or II 2 G Ex ia IIC T6

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, accredited 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 certification body

Schwedt

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

(13) **SCHEDULE**

(14) **EC-Type Examination Certificate No. TÜV 07 ATEX 553276**

(15) Description of equipment

The Overvoltage Protection Devices B62-36G type ÜSB62-36G.C_* and B62-30W type ÜSB62-30W.C_* are used for the protection of intrinsically safe circuits against hazards of overvoltages e. g. caused by lightning strikes.

The devices are allowed to be erected in explosion hazardous areas for category 2 apparatus. They meet the requirements of EN 60079-14, section 12.3 if the connected intrinsically safe signal circuit at the input terminals complies with the level of protection ia and is suitable for category 1 applications.

If the intrinsically safe signal circuit at the input terminals is not suitable for category 1 applications, the intrinsically safe signal circuit at the output terminals also is not suitable for category 1 applications.

The level of protection of the circuit at the output terminals and of the overvoltage protection devices is the same as the level of protection of the input terminals.

The intrinsically safe circuits are safely galvanically separated from earth potential.

The PA terminal has to be connected with the potential equalization of the explosion hazardous area.

Electrical data

Overvoltage protection unit B62-36G type ÜSB62-36G.C_*

Signal circuit	in type of protection „Intrinsic Safety“	Ex ia IIC/IIB
(Input terminals E1, E2		or Ex ib IIC/IIB
and	only for connection to a certified intrinsically safe circuit	
output terminals A1, A2)	maximum values:	
	$U_i = 36 \text{ V}$	
	$I_i = 450 \text{ mA}$	
	effective internal capacitance:	2.5 nF
	effective internal inductance:	0.15 mH

Overvoltage protection unit B62-30W type ÜSB62-30W.C_*

Signal circuit	in type of protection „Intrinsic Safety“	Ex ia IIC/IIB
(Input terminals E1, E2		or Ex ib IIC/IIB
and	only for connection to a certified intrinsically safe circuit	
output terminals A1, A2)	maximum values:	
	$U_i = 36 \text{ V}$	
	$I_i = 400 \text{ mA}$	
	effective internal capacitance:	2.5 nF
	The effective internal inductance is negligibly small.	

Schedule EC-Type Examination Certificate No. TÜV 07 ATEX 553276

Type ÜSB62-36G.C_*

Temperature class	Ambient temperature range
T6	- 40°C... + 60°C
T5, T4, T3, T2, T1	- 40°C... + 80°C

Type ÜSB62-30W.C_*

Temperature class	Ambient temperature range
T6	- 40°C... + 53°C
T5, T4, T3, T2, T1	- 40°C... + 80°C

(16) Test documents are listed in the test report No. 07203553276.

(17) Special conditions for safe use

none

(18) Essential Health and Safety Requirements

no additional ones

Translation

1. SUPPLEMENT

to Certificate No.

TÜV 07 ATEX 553276

Equipment:

Overvoltage protection unit B62-36G type ÜSB62-36G.C_* and B62-30W type ÜSB62-30W.C_*

Manufacturer:

VEGA Grieshaber KG

Address:

Am Hohenstein 113
77761 Schiltach
Germany

Order number:

8000392633

Date of issue:

2011-12-15

In the future, the overvoltage protection unit B62-36G type ÜSB62-36G.C_* and B62-30W type ÜSB62-30W.C_* according to EC-Type Examination Certificate TÜV 07 ATEX 553276 is manufactured according to the documents listed in the test report. The changes refer to the marking.

This reads:

II 2 (1) G Ex [ja Ga] IIC T6 Gb resp. II 2 G Ex ia IIC T6 Gb

No technical changes were carried out at the overvoltage protection unit B62-36G and B62-30W. The electrical data and all other details remain unchanged.

The equipment according to this supplement meets the requirements of these standards:

EN 60079-0:2009

EN 60079-11:2007

EN 60079-26:2007

(16) The test documents are listed in the test report No. 11 203 079902.

(17) Special conditions for safe use

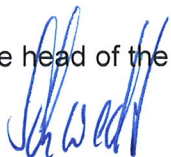
none

(18) Essential Health and Safety Requirements

no additional ones

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The head of the notified body



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