# EU-Type Examination Certificate Supplement 5

- Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU
- EU-Type Examination Certificate Number: BVS 05 ATEX E 023
- Product: Adjustment and indication unit VEGADIS 81, type DIS81(\*).\*
- Manufacturer: VEGA Grieshaber KG
  - Address: Am Hohenstein 113, 77761 Schiltach, Germany
- This supplementary certificate extends EU-Type Examination Certificate No. BVS 05 ATEX E 023 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.
- 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 05.2012 EU.

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

EN IEC 60079-0:2018	General requirements
EN 60079-31:2014	Protection by Enclosure "t"

- 10 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.
- 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 product. These are not covered by this certificate.
- 12 The marking of the product shall include the following:

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**DEKRA** 

II 2D Ex tb IIIC T75°C Db

DEKRA Testing and Certification GmbH Bochum, 2022-03-22

Signed: Jörg-Timm Kilisch

Managing Director



DAkkS Deutsche Akkredit D-ZE-174 Page 1 of 3 of BVS 05 ATEX E 023 / N5 – Jobnumber 342492600 This certificate may only be reproduced in its entirety and without any change.

DEKRA Testing and Certification GmbH, Handwerkstr. 15, 70565 Stuttgart, Germany Certification body: Dinnendahlstr. 9, 44809 Bochum, Germany Phone 449.234.3696-400, - mail DTC-Certification-body@dekra.com

#### 13 Appendix

#### 14 EU-Type Examination Certificate

#### BVS 05 ATEX E 023 Supplement 5

#### 15 Product description

#### 15.1 Subject and type

Adjustment and indication unit VEGADIS81, type DIS81(\*).abcdefghi

- a A Europe
- b R ATEX II 2D Ex to IIIC T\* Db IP66

More markings are possible in case the version is separately certified according to an additional certificate.

The detailed encoding of the type code is part of the safety instructions.

#### c Electronics

- I digital (I<sup>2</sup>C-communication)
- d Enclosure
  - A aluminium
  - V stainless steel (precision casting) 316L
  - H aluminium special colour
- e Degree of protection
  - Ĭ IP66/IP67
    - N IP66/IP68 (0.2 bar)
- f cable entry / connection
  - 1, D M20x1.5
  - Q, N 1/2NPT
    - \* M20x1.5 or 1/2NPT/ separately certified cable glands and blind plugs
- g Indication- adjustment module PLICSCOM
  - X without
  - A built in
  - F without, cover with glass window
  - K built in, with Bluetooth, handling via magnetical pen
  - U built in, with Bluetooth, battery, handling via magnetical pen
- h Kind of istallation
  - E for pipe mounting (29...60 m)
  - A wall-mounted aluminium- or stainless steel enclosure
  - D frame for aluminium- or stainless steel enclosure
- i Certificate
  - X without
  - M with

#### 15.2 Description

The adjustment and indicating unit with integrated adjustment and indicating module is used for parameter adjustment and visualisation of measurement data in areas with combustible, dust generating solids.

#### Reasons for the supplement:

- Updating of the EN IEC 60079-0 to the current version
- Use of a different, separately certified enclosure



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15.3	Parameters	
15.3.1	Electrical data	
	Supply and signal circuit (terminals 5, 6, 7, 8)	only for connection to the adjustment and indication unit of certified VEGA sensors.
	Adjustment and indication circuit (spring contacts in the terminal compartment)	only for connection to the VEGA display and adjustment module PLICSCOM
15.3.2	Thermal data	
15.3.2.1	Permitted ambient temperature at the electronics enclosure	-40 °C+60 °C
15.3.2.2	Maximum surface temperature	ambient temperature +12 K
15.3.3	Degrees of protection according to EN 60529	IP66
16	Report Number	
	BVS PP 05.2012 EU, as of 2022-03-22	
17	Special Conditions for Use	
.,	None	
18	Essential Health and Safety Requirements	
	The Essential Health and Safety Requirements ar	e covered by the standards listed under item 9.
19	Drawings and Documents	
	Drawings and documents are listed in the confider	ntial report.
	irm the correctness of the translation from the Gern ise of arbitration only the German wording shall be	
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	Bochum, 2022-03-22 BVS-Hk/Mu A20211152	
	1.3	
	1. lil	
	Managing Director	
DAkks	Page 3 of 3 of BVS 05 ATEX E 023 / N5 This certificate may only be reproduced in its	5 – Jobnumber 342492600 entirety and without any change.
	DEKRA Testing and Certification GmbH, Handwer Certification body: Dinnendahlstr. 9, 44	809 Bochum, Germany
	Phone +49.234.3696-400, Fax +49.234.3696-401, e-r	nan Diro-Genincation-body@dekra.com

55137-EN-220322

# Translation EU-Type Examination Certificate Supplement 4

Change to Directive 2014/34/EU

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- 2 Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU
  - EU-Type Examination Certificate Number: BVS 05 ATEX E 023
  - Product: Adjustment and indication unit type VEGADIS DIS81.A\*\*\*\*\*\*\*\*
  - Manufacturer: VEGA Grieshaber KG
  - Address: Am Hohenstein 113, 77761 Schiltach, Germany
- 7 This supplementary certificate extends EC-Type Examination Certificate No. BVS 05 ATEX E 023 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.
- 8 DEKRA EXAM 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/ PP/05.2012 EU.

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

EN 60079-0:2012 + A11:2013 General requirements EN 60079-31:2014 Protection by Enclosure "t"

- 10 If the sign "X" is placed after the certificate humber, it indicates that the product is subject to the Special Conditions for Use specified in the appendix 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 product. These are not covered by this certificate.
- 12 The marking of the product shall include the following:



II 2D Ex tb IIIC T75°C Db IP66

DEKRA EXAM GmbH Bochum, 2017-05-10

Signed: Jörg Koch

Signed: Dr Michael Wittler

Certifier

Approver

(DAkkS

Page 1 of 3 of BVS 05 ATEX E 023 / N4 This certificate may only be reproduced in its entirety and without any change.

DEKRA EXAM GmbH, Dinnendahlstrasse 9, 44809 Bochum, Germany, telephone +49.234.3696-105, Fax +49.234.3696-110, zs-exam@dekra.com

#### 13 Appendix

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#### 14 EU-Type Examination Certificate

#### BVS 05 ATEX E 023 Supplement 4

15 Product description

#### 15.1 Subject and type

Adjustment and indication unit type DIS82(\*).abcdefghi

- a A ATEX
- b R ATEX II 2D Ex tb IIIC T\* Db IP66 More markings are possible in case the version is separately certified according to an additional certificate. The detailed encoding of the type code is part of the safety instructions.
- c Electronics
  - I digital (I<sup>2</sup>C-communication)
- d Enclosure
  - A aluminium
  - V stainless steel (precision casting) 316L
  - H aluminium special colour
- e Degree of protection
  - I IP66/IP67
  - N IP66/IP68 (0.2 bar)
- f cable entry / connection
  - 1 M20x1.5 / without
  - D M20x1.5 / blind plug
  - Q 1/2NPT / without
  - N 1/2NPT / blind plug
  - \* other cable entries which are separately certified for this purpose
- g Indication- adjustment module PLICSCOM
  - X without
  - A built in
  - F without, cover with glass window
  - K built in, with Bluetooth, handling via magnetical pen
  - U built in, with Bluetooth, battery, handling via magnetical pen
- h Kind of istallation
  - E for pipe mounting (29...60 m)
  - A wall-mounted aluminium- or stainless steel enclosure
  - D frame for aluminium- or stainless steel enclosure
  - Certificate
  - X without
  - M with

#### 15.2 Description

The adjustment and indicating unit with integrated adjustment and indicating module is used for parameter adjustment and visualisation of measurement data in areas with combustible, dust generating solids.

#### Reasons for the supplement:

- Change to Directive 2014/34/EU
- type DIS 61 is omitted
- modification of the type code
- adjustment to the current standards

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15.3	Parameters	
15.3.1	Electrical data	
	Supply and signal circuit (terminals 5, 6, 7, 8)	only for connection to the adju indication unit of certified VEG
	Adjustment and indication circuit (spring contacts in the terminal compartment)	only for connection to the VEC adjustment module PLICSCO
15.3.2	Thermal data	
15.3.2.1	Permitted ambient temperature at the electronics enclosure	-40 °C+60 °C
15.3.2.2	Maximum surface temperature	ambient temperature +12 K
15.3.3	Degrees of protection according to EN 60529	IP66
16	Report Number	
	BVS PP 05.2012 EU, as of 2017-05-10	
17	Special Conditions for Use	
	None	
18	Essential Health and Safety Requirements	
	The Essential Health and Safety Requirements an	e covered by the standards listed u
19	Drawings and Documents	
	Drawings and documents are listed in the confide	ntial report.
	irm the correctness of the translation from the Gern	nan original. valid and binding.

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	Tran	Islation		
(1)	3. 3	Supplement to the		
	EC	-Type Examination Cer	tificate	
(2)	in poten	nent and protective systems intended for use ntially explosive atmospheres - Directive 94/9/EC ment accordant with Annex III number 6		
(3)	No. of E	EC-Type Examination Certificate: BVS 05 ATEX E 023		
(4)	Equipm	ent: Adjustment and indication unit type VEGADIS DIS VEGADIS DIS81.A*******	61.****,	
(5)	Manufa	cturer: VEGA Grieshaber KG		
(6)	Address	s: Am Hohenstein 113, 77761 Schiltach, Germany		
(7)		The design and construction of this equipment and any acceptable variation thereto are specified the appendix to this supplement.		ified in
(8)	the Dire equipme the des explosiv	tification body of DEKRA EXAM GmbH, notified body no. 0158 in active 94/9/EC of the European Parliament and the Council of 23 ent has been found to comply with the Essential Health and Sa sign and construction of equipment and protective systems in <i>ve</i> atmospheres, given in Annex II to the Directive. The exam d in the Test and Assessment Report BVS PP 05.2012 EG.	March 1994, certifies the fety Requirements related for use in pote	hat this ating to entially
(9)	EN 6007 EN 6007	sential Health and Safety Requirements are assured by compliant 79-0:2012 General requirements 79-1:2007 Flameproof enclosure "d" 79-31:2009 Protection by enclosures "t"	æ with:	
(10)	If the sig	gn "X" is placed after the certificate number, it indicates that the e ns for safe use specified in the appendix to this certificate.	quipment is subject to s	special
(11)	This sup tests of t Further	pplement to the EC-Type Examination Certificate relates only to the specified equipment in accordance to Directive 94/9/EC/ requirements of the Directive apply to the manufacturing ent. These are not covered by this certificate.	///////////////////////////////////////	//////
(12)	The mar	rking of the equipment shall/include the following:	///////////////////////////////////////	
	(Ex)	II 1D Ex ta IIIC T75°C Da or II 2D Ex to IIIC T75°C E IP66	DIS61.GX* DIS81.AR*	
	(Ex)	II 1G Ex ia IIC T6 Ga or II 2G Ex ia IIC T6 Gb II1D Ex ta IIIC T75°C Da or II 2D Ex th IIIC T75°C DI IP66	DIS61.CK* DIS81.AH*	
	(Ex)	II 2G Ex d IIC T6 Gb	DIS81.AJ**	*****
		II1D Ex ta IIIC T75°C Da or II 2D Ex th IIIC T75°C DI IP66	<b>o</b>	
		EXAM GmbH a, dated 2013-11-04		
		Signed: Simanski Signed: D	r. Eickhoff	

D DEKR

# Signed: Dr. Eickhoff

ertificate may only be reproduced in its entirety and without change DEKRA EXAM GmbH Dinnendahlstrasse 9 44809 Bochum Phone +49.234.3696-105 Fax +49.234.3696-110 zs-exam@dekra.com

55137-EN-220322



Page 2 of 4 to BVS 05 ATEX E 023 / N3

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#### 15.2 Description

The adjustment and indicating unit type with integrated adjustment and indicating module, is used for parameter adjustment and visualisation of measurement data. The adjustment and indicating unit type VEGADIS DIS61.CK\*\*\* resp. type VEGADIS DIS81.AH\*\*\*\*\*\*\* is intrinsically safe Ex ia IIC T6 acc. to PTB 02 ATEX 2136X.

Reasons for this Supplement:

- Updating of the standards
- Modification of the PLICSCOM module
- Qualification of some types for EPL Da
- Modification of the electrical data
- Implementation of types VEGADIS DIS81.A\*\*\*\*\*\*\*\*, the enclosure in type of protection Flameproof Enclosure "d" of type VEGADIS DIS81.AJ\*\*\*\*\*\*\* is described in EC Type Test Certificate BVS 13 ATEX E 054.

15.3 Parameters

- 15.3.1 Electrical data
- 15.3.1.1 VEGADIS DIS61.CK/GX\*\*\* Supply and signal circuit (terminals 5, 6, 7, 8)

Communication circuit

compartment)

15.3.1.2 VEGADIS DIS81.AR\*\*\*\*\*\*\*

(terminals 5, 6, 7, 8)

terminal compartment)

Supply and signal circuit

(I<sup>2</sup>C-BUS socket in the terminal

Adjustment and indication circuit

Adjustment and indication circuit (spring contacts in the

In type of protection Intrinsic Safety Ex ia IIC only for connection to a certified intrinsically safe circuit with the following maximum values:

U<sub>1</sub> = 6.4 V P<sub>1</sub> = 332 mW effective internal capacitance negligible effective internal inductivity negligible

Only for connection to the adjustment and indication unit, terminals 5, 6, 7, 8 of VEGAPULS PS6\*\*\*\*. VEGAPLEX FX6\*/8\*. VEGABAR BR5/6\*.\*\*\*, VEGASON SN6\*.\*\*\* The maximum L<sub>0</sub>- and C<sub>0</sub>-values of the cable connecting VEGADIS61 and the sensor have to be taken from the applicable EC Type Test Certificate.

In type of protection Intrinsic Safety Ex ia IIC only for connection to the intrinsically safe signal circuit of the VEGA interface converter VEGACONNECT according to PTB 01 ATEX 2007, PTB 07 ATEX 2013 X

Only for connection to the adjustment and indication unit (A/B-module, PLICSCOM) In the variant with 2 chambers the adjustment and indication unit may be built in either the electronics compartment or in the terminal compartment

Only for connection to the adjustment and indication unit, terminals 5, 6, 7, 8 of VEGAFLEX FX8\*(\*).AR\*\*\*\*\*\*\*\*\* and the analogical certified VEGA sensors

Only for connection to the adjustment and indication unit (PLICSCOM)

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	15.3.1.3	VEGADIS DIS81.AJ****** Supply and signal circuit (terminals 5, 6, 7, 8)	Only for connection to the adjustment and indication un terminals 5, 6, 7, 8 of VEGAFLEX FX8*(*).AR********* and the analogical certified VEGA sensors
	15.3.1.4	VEGADIS DIS81.AH****** Supply and signal circuit (terminals 5, 6, 7, 8)	In type of protection Intrinsic Safety Ex ia IIC only for connection to a certified intrinsically safe circuit with the following maximum values:
			$U_i = 6.4 V$ $P_i = 332 mW$ effective internal capacitance negligible effective internal inductivity negligible
			Only for connection to the adjustment and indication un terminals 5, 6, 7, 8 of VEGAPULS PS6*.***, VEGAFLEX FX6*/8*.****. VEGABAR BR5/6*.***, VEGACAL CL6*.*** or VEGASON SN6*.***.
			The maximum $L_{o}$ - and $C_{o}$ -values of the cable connecting VEGADIS61 and the sensor have to be taken from the applicable EC Type Test Certificate.
		Adjustment and indication circuit (spring contacts in the terminal compartment)	Only for connection to the adjustment and indication unit (PLICSCOM)
	15.3.2	Thermal data	
			the electronics enclosure -40 °C, .+60 °C
		Maximum surface temperature	Ambient temperature +/12/K
	15.3.3	Degrees of protection according to	p EN 60529
(16)	Test and	Assessment Report	
	BVS PP	05.2012 EG as of 2013-11-04	
(17)	Special c	conditions for safe use	
	None		

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# **2nd Supplement**

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

# to the EC-Type Examination Certificate BVS 05 ATEX E 023

Equipment:

Adjustment and indication unit type VEGADIS DIS61.\*\*\*\*

Manufacturer: VEGA Grieshaber KG

Address: 77757 Schiltach

#### Description

The adjustment and indicating unit type VEGADIS DIS61.GX\*\* with integrated adjustment and indicating module, also called A/B module or PLICSCOM, meets the requirements of the standards EN 61241-0:2006 and EN 61241-1:2004, protection by enclosures "tD".

The adjustment and indicating unit can also be used with a stainless steel double chamber enclosure.

The complete type code is as follows:

Adjustment and indication unit type VEGADIS DIS61.\*\*\*\*

enclosure / degrees of protection V stainless steel/IP66 Aluminium/IP66 A stainless steel double chamber W enclosure IP66 cable entry M M20x1.5 N 1/2NPT GX ATEX II 2D Ex tD A21 IP66 T65°C CK ATEX II 1G, 2G Ex ia IIC T6 (PTB 02 ATEX 2136X) ATEX II 2D Ex tD A21 IP66 T65°C

The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 61241-0:2006 General requirements EN 61241-1:2004 Protection by enclosures

Page 1 of 3 to BVS 05 ATEX E 023 / N2

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# DEKRA

#### Parameters

Electrical dataBUS- supply and signal circuit<br/>(terminals 5, 6, 7, 8)in type of protection Intrinsic Safety Ex ia IIC<br/>only for connection to a certified intrinsically safe<br/>circuit with the following maximum values:Ui = 6.4 V<br/>Pi = 332 mW<br/>effective internal capacitance negligible<br/>effective internal inductivity negligible

in type of protection Intrinsic Safety Ex ia IIC only for connection to the intrinsically safe signal circuit of the VEGA interface converter VEGACONNECT according to PTB 01 ATEX 2007, PTB 07 ATEX 2013 X

> in type of protection Intrinsic Safety Ex ia IIC only for connection to the adjustment and (A/B-module, PLICSCOM)

> > IP66

#### Thermal data

Permitted ambient temperature at the electronics enclosure	-40 °C+60 °C
Maximum surface temperature	ambient temperature $+ 3 \text{ K}$

Degrees of protection according to EN 60529

communication circuit

compartment)

indication unit

(I2C-BUS socket in the terminal

adjustment and indication circuit

The marking of the equipment shall include the following:

## x II 2D Ex tD A21 IP66 T65°C

II 1G Ex ia IIC T6 or II 2G Ex ia IIC T6 II 2D Ex tD A21 IP66 T65°C Type VEGADIS DIS61.GX\*\*

Type VEGADIS DIS61.CK\*\*

# DEKRA

Special conditions for safe use

none

Test and assessment report

BVS PP 05.2012 EG as of 18.11.2008

#### **DEKRA EXAM GmbH**

Bochum, dated 18. November 2008

Signed: Dr. Jockers Signed: Dr. Eickhoff

Certification body

Special services unit

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.

44809 Bochum, 18. November 2008 BVS-Hk / Her A 20080508

> **DEKRA EXAM GmbH** Bochum, dated 18, November 2008

Certification body

Special services unit

Page 3 of 3 to BVS 05 ATEX E 023 / N2 This certificate may only be reproduced in its entry and without change. DEKRA EXAM GmbH Dinnendahlstrasse 9 44809 Bochum Germany Phone +49 234/3696-105 Fax +49 234/3696-110 E-mail zs-exam@dekra.com (until 31 03.2007 EXAM BBG Prdf- und Zertifizier GmbH)





## Translation

# **1st Supplement**

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

# to the EC-Type Examination Certificate BVS 05 ATEX E 023

Equipment: Adjustment and indication unit type VEGADIS DIS61.\*\*\*\* (former type VEGADIS DIS61.GX\*\*)

Manufacturer: VEGA Grieshaber KG

Address:

77757 Schiltach, Germany

Description

To the adjustment and indicating unit type VEGADIS DIS61.GX\*\* with integrated adjustment and indicating module, also called A/B module or PLICSCOM, type VEGADIS DIS61.CK\*\* is added.

This type is intrinsically safe EEx ia IIC T6 acc. to PTB 02 ATEX 2136X incl. the 1. Supplement dated 18.01.06 and meets category 1G or 2G as well as category 2D.

The adjustment and indicating unit type VEGADIS DIS61 \*\*\*\* can be modified according to the descriptive documents as mentioned in the pertinent test and assessment report.

The complete type code is as follows:

Adjustment and indication unit type VEGADIS DIS61.\*\*\*

enclosure / degrees of protection V stainless steel/IP66 A Aluminium/IP66

cable entry M M20x1.5

- N 1/2NPT
- GX ATEX II 2D IP66 T 65 °C CK ATEX II 1G, 2G EEx ia IIC T6 (PTB 02 ATEX 2136X) ATEX II 2D IP66 T 65 °C

The Essential Health and Safety Requirements of the modified equipment are assured by compliance with:

EN 50281-1-1:1998+A1

Dust explosion protection



The marking of the equipment shall include the following:



⟨Ex⟩ || 2D |P66 T 65 °C

Type VEGADIS DIS61.GX\*\*



II 1G EEx ia IIC T6 or II 2G EEx ia IIC T6 II 2D IP66 T 65 °C

Type VEGADIS DIS61.CK\*\*

Special conditions for safe use none

Test and assessment report BVS PP 05.2012 EG as of 14.02.2006

#### EXAM BBG Prüf- und Zertifizier GmbH

Bochum, dated 14. February 2006

Signed: Dr. Jockers

Certification body

Signed: Dr. Eickhoff

Special services unit

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.

44809 Bochum, 14. February 2006 BVS-Hk/Kw A 20060085

EXAM BBG Prüf- und Zertifizier GmbH

Certification body

Special services unit

Page 2 of 2 to BVS 05 ATEX E 023 / N1 This certificate may only be reproduced in its entirety and without change. Dinnendahlstrasse 9 44809 Bochum Germany Phone +49 234/3696-105 Fax +49 234/3696-110



(2)



Translation

# (I) **EC-Type Examination Certificate**

- Directive 94/9/EC -

Equipment and protective systems intended for use in potentially explosive atmospheres

## (3) **BVS 05 ATEX E 023**

- (4) Equipment: Adjustment and indication unit type VEGADIS DIS61.GX\*\*
- (5) Manufacturer: VEGA Grieshaber KG
- (6) Address: D 77757 Schiltach
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the schedule to this type examination certificate.
- (8) The certification body of EXAM BBG Pruf- und Zertifizier GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment 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 test and assessment report BVS PP 05.2012 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:

EN 50281-1-1:1998+A1 Dust explosion protection

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 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 shall include the following:

II 2D IP66 T 65 °C

Signed:

#### EXAM BBG Prüf- und Zertifizier GmbH

Bochum, dated 03. February 2005

Certification body

Dr. Jockers

Signed: Dr. Eickhoff

Special services unit

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(13) Appendix to (14) EC-Type Examination Certificate

### BVS 05 ATEX E 023

#### (15) 15.1 Subject and type

Adjustment and indication unit type VEGADIS DIS61.GX\*\*
enclosure / degrees of protection
V stainless steel /IP66
A aluminium/IP66
cable entry
M M20x1.5
N 1/2NPT

#### 15.2 Description

The adjustment and indicating unit type VEGADIS DIS61.GX\*\* with integrated adjustment and indicating module, also called A/B module or PLICSCOM, is used for parameter adjustment and visualisation of measurement data in areas with combustible, dust generating solids. The adjustment and indicating unit type VEGADIS DIS61.GX\*\* is intrinsically safe EEx in IIC T6 acc. to PTB 02 ATEX 2136X.

#### 15.3 Parameters

15.3.1 Electrical data

BUS- supply and signal circuit (terminals 5, 6, 7, 8)

communication circuit (I<sup>2</sup>C-BUS socket in the terminal compartment)

adjustment and indication circuit

in type of protection Intrinsic Safety EEx ia IIC only for connection to a certified intrinsically safe circuit with the following maximum values:

Ui = 6,4 V Pi = 332 mW effective internal capacitance negligible effective internal inductivity negligible

in type of protection Intrinsic Safety EEx ia IIC only for connection to the intrinsically safe signal circuit of the VEGA interface converter VEGACONNECT3 according to PTB 01 ATEX 2007

in type of protection Intrinsic Safety EEx ia IIC only for connection to the adjustment and indication unit (A/B-module, PLICSCOM)

15.3.2 Thermal data

15.3.2.1 Permitted ambient temperature at the electronics enclosure

15.3.2.2 Maximum surface temperature

- 40 °C...+ 60 °C ambient temperature + 3 K

15.3.3 Degrees of protection according to EN 60529

IP66

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- (16) <u>Test and assessment report</u> BVS PP 05.2012 EG as of 03.02.2005
- (17) <u>Special conditions for safe use</u> None

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.

44809 Bochum, 03.02.2005 BVS-Hk/Mi A 20040536

EXAM BBG Prüf- und Zertifizier GmbH

rtification body

Special services unit

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