

CERTIFICATE

[1] TEST CERTIFICATE OF TYPE WE

[2] Devices, protection systems, parts and components designated for use in areas threatened with explosion. Directive 94/9/WE

MGPiPS Decree dated 28.07.2003 (Journal of laws No. 143 item 1393).

[3] Test certificate of type WE:

KDB 04ATEX352

[4] Device:

**Double-position electric level controller of type
ERH-**-16-***

[5] Producer:

CONTROLMATICA ZAP-PNEFAL Sp. z o. o.

[6] Address:

63-400 Ostrów Wielkopolski ul. Krotoszyńska 35

[7] The present device, protection system, part of component together with its approved versions have been described in the appendix to the hereby certificate and documentation mentioned in it.

[8] Central Mining Institute, Certification Body no. 1453 according to Article 9 of Directive 94/9/WE dated 23 March 1994, confirms that the device or protection system, which stands for the object of the hereby certificate, meets the fundamental safety and health protection requirements on making designs and constructions of devices and protection systems designated for use in areas threatened with explosion listed in the Appendix no. 2 to Directive 94/9/WE (Section 2 of MGPiPS Decree dated 28.07.2003, Journal of Laws No. 143 item 1393).

Evaluation and test results have been presented in the report KDB No. 04.454 (T-5231)

[9] The fundamental safety and health protection requirements are fulfilled by means of meeting the following norms:

PN-EN 50014 : 2002 (U); PN-EN 50018 : 2002/A1 : 2003 (U);

PN-EN 50019 : 2002 (U); PN-EN 50284 : 2004

PN-EN 13463-1 : 2003

[10] "X" sign placed after the certificate number means the special conditions of use in areas threatened with explosion listed in the appendix to the hereby certificate.

[11] The hereby test certificate of type WE applies exclusively to construction, evaluation and tests of the subject device or protection system according to Directive 94/9/WE.

The certificate does not include other Directive requirements on the production process and the way of launching the device or protection system into market.

[12] Device or protection system should be marked as follows:

II 1/2G EExedIIBT4

Date of issue: 27.12.2004

Page 1 out of 3

Manager

Product certification team

KD "Barbara" Mikołów

dr inż. Krzysztof Cybulski

/stamp and signature/

Central Mining Institute in Krakow

Certification Body

/round seal/



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NIP 622-110-59-49 R-200974814

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MANAGER
Certification Body
Dr inż. Dariusz Stefaniak
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Notes:

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**Central Mining Institute
Certification Body
Product certification Team KD "Barbara"**

[13]

Appendix

[14]

Test certificate of type WE KDB 04ATEX352

[15] Description:

Electric double-position level controller of type ERH-**-16-* is intended to signal value of liquid level in a tank. It can also be used in regulation and control systems.

There are designed four execution versions of floating module and three measurement ranges of the controller. Table 1 of the instruction manual ER5-1543 (DTR) presents the detailed description of marking.

Requirements established for devices in category "1" are only met by the controller float with a lever ended with a permanent magnet. Other elements meet the requirements set for devices in category "2".

Information on the float location is sent to the inside of casing through magnet coupling.

Minimal thickness of casing wall equals 3mm. The controller casing ensures the protection level IP66.

The rule of marking:

ERH-**-16-*

Measurement range (1 ± 3)

Kind of floating module (01 ± 04)

Technical parameters:

U = 230V ACDC

I = to 2,5A / depending on the operation category, according to table 1 of the instruction manual ER5-1543 (DTR)/

Maximal temperature of the controlled liquid: 100°C

Surrounding temperature: from -25°C to +70°C

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Certification Body
Product certification Team KD "Barbara"**

[13]

Appendix

[14]

Test certificate of type WE KDB 04ATEX352

[16]

Test reports:

Report no. KDB No. 04.454

[17]

Special conditions of use:

None.

[18]

Fundamental safety and health protection requirements

Met by means of fulfilling requirements of norms listed under par. 9 of the hereby certificate.

[19]

Breakdown of accepted documentation:

Technical description /DTR/ ER5-1543 dated 20.04.2004

Drawing

ER3-1536 sheet 1 and 2 dated 20.04.2004

ER1-1616 sheet 1 dated 20.04.2004

ER1-1615 sheet 1 dated 20.04.2004

IP1-0088 sheet 1 dated 20.04.2004

ER2-1519 sheet 1 dated 20.04.2004

ER4-1540 sheet 1 and 2 dated 20.04.2004

ER4-1547 sheet 1 and 2 dated 20.04.2004

ER4-1548 sheet 1 and 2 dated 20.04.2004

ER4-1549 sheet 1 and 2 dated 20.04.2004

ER3-1567 sheet 1 and 2 dated 20.04.2004

ER3-1465 sheet 1, 2 and 3 dated 20.04.2004

ER3-1466 sheet 1 and 2 dated 20.04.2004

ER3-1467 sheet 1 and 2 dated 20.04.2004

ER3-1468 sheet 1 and 2 dated 20.04.2004

ER1-1609 sheet 1 dated 20.04.2004

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NIP 622-110-59-49 R-250974814

CERTIFICATE

[1] **SUPPLEMENTARY TEST CERTIFICATE OF TYPE WE**

[2] Devices, protection systems, parts and components designated for use in areas threatened with explosion. Directive 94/9/WE

MGPiPS Decree dated 28.07.2003 (Journal of laws No. 143 item 1393).

[3] Supplementary test certificate of type WE:

KDB 04ATEX352/1

[4] Device:

**Double-position electric level controller of type
ERH-**-16-***

[5] Producer:

CONTROLMATICA ZAP-PNEFAL Sp. z o. o.

[6] Address:

63-400 Ostrów Wielkopolski ul. Krotoszyńska 35

[7] The hereby certificate supplements the test certificate of type WE KDB 04ATEX352 applying to the device or protection system designed and made according to the documentation presented in an appendix to the aforementioned certificate. There have been changes introduced to the device or protection system, which are described in the appendix to the present supplementary certificate and documentation mentioned in it.

The hereby supplementary certificate is valid together with the original certificate.

Evaluation and measurement results are presented in the report
KDD No. 04.454/1 [T-5190]

[8] Marking

II 1/2G EExedIIBT4

Date of issue: 31.08.2005

Page 1 out of 3

Manager

Product certification team

KD "Barbara" Mikołów

dr inż. Krzysztof Cybulski

/stamp and signature/

Central Mining Institute in Krakow

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Central Mining Institute

MANAGER

Certification Body

Dr inż. Dariusz Stefaniak

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[9] **Appendix**

[10] **Supplementary test certificate of type WE KDB 04ATEX352/1**

[11] **Description of changes introduced in the device or system:**

There has been introduced the possibility to use the rubber cover that protects mechanical joint set of float against pollution with liquid ingredients.

Other elements of controller have not been changed.

Technical parameters:

Technical parameters have not been changed.

Marking:

Marking of controller has not been changed.

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Certification Body

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Product certification Team KD "Barbara"**

Appendix

Supplementary test certificate of type WE KDB 04ATEX352/1

[12] Test reports:

Additional tests in the report no. KDB No. 04.454/1

[13] Special conditions of use:

Special conditions of use have not been changed – see: certificate KDB 04ATEX352.

[14] Fundamental safety and health protection requirements

Fundamental safety and health protection requirements are met by fulfilling requirements of the following norms:

PN-EN 50014 : 2002 (U); PN-EN 50018 : 2002/A1 : 2003 (U);
PN-EN 50019 : 2002 (U); PN-EN 50284 : 2004; PN-EN 13463-1:2003

[15] Breakdown of accepted documentation:

Drawing ER1-1621 dated 31.08.2005
ER3-1466 sheet 1 and 2 dated 31.08.2005
ER4-1547 sheet 1 and 2 dated 31.08.2005

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CERTIFICATE

[1] **SUPPLEMENTARY TEST CERTIFICATE OF TYPE WE**

[2] Devices, protection systems, parts and components designated for use in areas threatened with explosion. Directive 94/9/WE

MG Decree dated 22.12.2005 (Journal of laws No. 263 item 2203).

[3] Supplementary test certificate of type WE:

KDB 04ATEX352/2

[4] Device:

**Double-position electric level controller of type
ERH-**-16-***

[5] Producer:

CONTROLMATICA ZAP-PNEFAL Sp. z o. o.

[6] Address:

ul. Krotoszyńska 35, 63-400 Ostrów Wielkopolski

[7] The hereby certificate supplements the test certificate of type WE KDB 04ATEX352 applying to the device or protection system designed and made according to the documentation presented in an appendix to the aforementioned certificate. There have been changes introduced to the device or protection system, which are described in the appendix to the present supplementary certificate and documentation mentioned in it.

The hereby supplementary certificate is valid together with the original certificate.

Evaluation and measurement results are presented in the report
KDD No. 07.240 [T-5190]

[8] Marking

**II 1/2G
EExedIIBT4**

Date of issue: 16.11.2007

Page 1 out of 3

Manager

Product certification team

KD "Barbara" Mikołów

dr inż. Krzysztof Cybulski

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Central Mining Institute in Krakow

Certification Body

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MANAGER

Certification Body

Dr inż. Dariusz Stefaniak

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Product certification Team KD "Barbara"**

[9]

Appendix

[10]

Supplementary test certificate of type WE KDB 04ATEX352/2

[11] **Description of changes introduced in the device or system:**

The second evaluation of the double-position electric liquid controller has been made. The controller is intended to signal value of liquid level in a tank. It can also be used in regulation and control systems.

There are designed four execution versions of floating module and three measurement ranges of the controller. Table 1 of the instruction manual ER5-1543 (DTR) presents the detailed description of marking.

Requirements established for devices in category "1" are only met by the controller float with a lever ended with a permanent magnet. Other elements meet the requirements set for devices in category "2".

Information on the float location is sent to the inside of casing through magnet coupling. Minimal thickness of casing wall equals 3mm. The controller casing ensures the protection level IP66.

The rule of marking:

ERH-**-16-*

Measurement range (1 ± 3)

Kind of floating module (01 ± 04)

Technical parameters:

U = 230V ACDC

I = to 2,5A / depending on the operation category, according to table 1 of the instruction manual ER5-1543 (DTR)/

Maximal temperature of the controlled liquid: 100°C

Surrounding temperature: from -25°C to +70°C

The product should be marked as follows:

KDB 04ATEX352

II 1/2G c

Ex de IIBT4

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**Central Mining Institute
Certification Body
Product certification Team KD "Barbara"**

[9]

Appendix

Supplementary test certificate of type WE KDB 04ATEX352/2

[12] **Test reports:**

Report no. KDB No. 07.240

[13] **Special conditions of use:**

None.

[14] **Fundamental safety and health protection requirements**

Fundamental safety and health protection requirements are met by fulfilling requirements of the following norms:

PN-EN 60079-0 : 2006 (U); PN-EN 60079-1 : 2004/AC : 2006 (U);

PN-EN 60079-7 : 2004 (U); PN-EN 13463-1 : 2003; PN-EN 13463-5:2005

[15] **Breakdown of accepted documentation:**

Technical description /DTR/ ER5-1543 dated 09.2007

Instruction manual CON-0041 updated 16.10.2007

Risk analysis ER-5-1627 updated 16.10.2007

Drawing ER3-1536 sheet 1 and 2 updated 16.10.2007

ER3-1567 sheet 1±3 updated 16.10.2007

ER1-1616 sheet 1 updated 16.10.2007

ER1-1615 sheet 1 updated 16.10.2007

IP1-0088 sheet 1±3 updated 16.10.2007

ER2-1519 sheet 1 updated 16.10.2007

ER4-1540 sheet 1 and 2 updated 16.10.2007

ER4-1547 sheet 1 and 2 updated 16.10.2007

ER4-1548 sheet 1 and 2 updated 16.10.2007

ER4-1549 sheet 1 and 2 updated 16.10.2007

ER3-1465 sheet 1±5 updated 16.10.2007

ER3-1466 sheet 1 and 2 updated 16.10.2007

ER3-1467 sheet 1 and 2 updated 16.10.2007

ER3-1468 sheet 1 and 2 updated 16.10.2007

ER1-1609 sheet 1 updated 16.10.2007

ER1-1621 sheet 1 updated 16.10.2007

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P 622-110-59-49 R-210974814

A certified translation of Technical Certificate from Polish:

Logo of the Institutions: "GIG" & PCA & IAF & KDB & ATEX

THE CENTRAL INSTITUTE OF MINING
Certification Unit
Products Certification Team
Experimental Coal Mine in MIKOŁÓW
43-190 Mikołów, ul. Podleska 72
telex: +48 32 3246550
fax: +48 32 3224931
www.gig.katowice.pl

[1]

**SUPPLEMENT NO. 4
CERTIFICATE OF "WE" TYPE TEST
KDB 04ATEX352**

[2] Protective Devices, Systems, Parts and Subassemblies designed for use in the explosion-risk zones. Directive no. 94/9/WE.
(The Regulation issued by the Ministry of Mining "MG" dated 22nd December 2005, Official Journal of Law – OJL – 'Dz. U.' no. 263, item 2203).

[3] Device name: **Electric Two-term Level Controller / Switch type
ERH-**-16-***

[4] Manufacturer: **APLISENS S. A. (Joint Stock Company)**

[5] Company's address: **ul. Krotoszyńska 35, PL 63-400 Ostrów Wielkopolski**

[6] One introduced the changes for the Device or Protective System, described in the Annex to the present Supplement, and in the documents mentioned in it.
The present document keeps its validity together with the original certificate.
The results of assessment and tests were specified in detail in the Report made by the Experimental Coal Mine ('KDB'), Report no. KDB 07.240-2 [T – 5190].

[7] Markings:

Ex II 1/2G c Ex de IIB T4 Ga / Gb

[8] The basic requirements of the safety and health protection were realized by fulfilling of the requirements mentioned in the below standards:

PN-EN 60079-0:2009;	(EN 60079-0:2009);
PN-EN 60079-1:2010;	(EN 60079-1:2007);
PN-EN 60079-7:2010;	(EN 60079-7:2007);
PN-EN 60079-26:2007;	(EN 60079-26:2007);
PN-EN 13463-1:2010;	(EN 13463-1:2009);
PN-EN 13463-5:2012;	(EN 13463-5:2011).

[9] The marking is not changed.



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Signed by:

Specialist for Certification
of the Explosion-proof Devices
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Michał Górny, dr inż. (Ph. D. Sc. Eng.)

Manager of the Products Certification Team
KD 'Barbara' Experimental Coal Mine in MIKOŁÓW
(-) illegible signature
Krzysztof Cybulski, dr inż. (Ph. D. Sc. Eng.)
Professor of The Central Institute of Mining

Round official seal of the Central Mining Institute in Katowice
Certification Unit

Date of issue: 12th April 2013

Page: 1 of 2

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Ostrów Wlkp., 16th January 2014

Translator's repertorium no.: 1 / Apl / 2014

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the Polish Explosion-proof Certificate Supplement original shown to me*



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A certified translation of Technical Certificate from Polish:

The CENTRAL INSTITUTE of MINING "GIG"
Certification Unit
Products Certification Team
of the KD 'Barbara' Experimental Coal Mine

[10]

ANNEX / ENCLOSURE

[11]

**Supplement no. 4 to the certificate of the 'WE' type test
KDB 04ATEX352**

[12]

Description of changes introduced in the device or system:

The Manufacturer of the subject products changed its name into APLISENS S. A. with reference to takeover of the "CONTROLMATICA ZAP-PNEFAL Sp. z o. o." Ltd. Company by the APLISENS S. A. Joint Stock Company and transferring it into the Company's Branch.

Technical documentation was updated.

Technical parameters:

No changes.

[13]

Special Conditions of Application:

There are none.

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Page: 2 of 2

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Ostrów Wlkp., 16th January 2014

Translator's repertorium no.: 1 A / Apl / 2014

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A certified translation of Technical Certificate from Polish:

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[1] **SUPPLEMENT NO. 5 OF THE "WE" TYPE TEST CERTIFICATE
KDB 04ATEX 352**

[2] Protective Devices, Systems, Parts and Subassemblies designed for use in explosion-risk zones. Directive no. 94/9/WE
(Order issued by the Ministry of Mining "MG" dated 22nd December 2005, Official Journal of Law – OJL – 'Dz. U.' no. 263, item 2203).

[3] Device name: **Electric Two-term Level Controller / Switch type
ERH-**-16-***

[4] Manufacturer: **APLISENS S. A. Branch in Ostrów Wielkopolski**

[5] Company's address: **ul. Krotoszyńska 35, PL 63-400 Ostrów Wielkopolski**

[6] There were changes made in the protective device or system, described in the Annex to the present supplementary certificate and in the documentation mentioned in this annex. The present supplementary certificate maintains its total validity with the original certificate. The results of assessment and tests were specified in detail in the Report made by the EXPERIMENTAL COAL MINE (KDB), Report no. KDB 07.240-3 [T-5190]

[7] Marking:

Ex II 1 / 2 G Ex de IIB T4 Ga / Gb

[8] **The basic requirements of safety and health protection:**

The basic requirements of safety and health protection were realized by meeting the requirements specified in the following standards:

PN-EN 60079-0: 2013-03+A11:2014-03; (EN 60079-0:2012+A11:2013);
PN-EN 60079-1:2010; (EN 60079-1:2007);
PN-EN 60079-7:2010; (EN 60079-7:2007);
PN-EN 60079-26:2007; (EN 60079-26:2007);
PN-EN 13463-1:2010; (EN 13463-1:2009);
PN-EN 13463-5:2012; (EN 13463-5:2011).

[9] The marking was unchanged.

Signed by:

Specialist for the Explosionproof Products Certification Team
(-) *illegible signature*
Michał Górny, Ph. D. Sc. Eng.

Manager of the Products Certification Unit
(-) *illegible signature*
'Barbara' Experimental Coal Mine in MIKOŁÓW
Krzysztof Cybulski, Ph. D. Sc. Eng.

Round official seal of the Central Mining Institute in Katowice - Certification Unit

Date of issue: 23rd January 2015

Page: 1 of 2



The CENTRAL INSTITUTE of MINING "GIG"
Certification Unit
Products Certification Team of the KD 'Barbara' Experimental Coal Mine

[10] **ANNEX / ENCLOSURE**

[11] **The supplement no. 5 certificate of the 'WE' type test – KDB 04 ATEX352**

[12] **Description of changes implemented in the device or system:**

The Manufacturer introduced the new version of the Two-term Electric Level Controller / Switch type ERH-**-16-* with the housing protection degree – IP 68.

The technical documentation was updated.

The technical parameters were changed.

Technical parameters:

Rated switching voltage:	$U_e = 230 \text{ V AC} / 220 \text{ V DC}$
Rated continuous current:	$I_{nc} = 2.5 \text{ A}$
Rated switching current:	$I_{nc} = 2.5 \text{ A AC} / 0.3 \text{ A DC}$
Ambient temperature range:	-25°C up to +70°C
Protection degree:	IP66 / IP68

[13] **Special conditions of the usage:**

None.

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Certification Unit*

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Page: 2 of 2

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Ostrów Wlkp., 4th February 2015

Translator's repertorium no.: 1 / Aplis / 2015

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Bochniak

A certified translation of Technical Certificate from Polish:

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"GIG"

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Certification Unit

Products Certification Team

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PCA – AC 038

KDB ATEX

- [1] **SUPPLEMENT NO. 6 OF THE "WE" TYPE TEST CERTIFICATE
KDB 04ATEX352**
- [2] Devices, Protective Systems, Parts and Subassemblies designed for use in the explosion-risk zones. Directive no. 94/9/WE.
(The Regulation issued by the Ministry of Mining "MG" dated 22nd December 2005, Official Journal of Law - OJL - 'Dz. U.' no. 263, item 2203).
- [3] Device name: **Electric Two-term Level Controller / Switch
type ERH-**-16-***
- [4] Manufacturer: **APLISENS S. A. Branch in Ostrów Wielkopolski**
- [5] Company's address: **ul. Krotoszyńska 35, 63-400 Ostrów Wielkopolski**
- [6] The changes were introduced in the device or protective system, those were described in the Annex to the present supplementary certificate and in the documents mentioned in this annex. The present certificate maintains its validity together with the original certificate. The results of assessment and tests were specified in detail in the Report by the Experimental Coal Mine 'KDB', KDB no. 07.240-4 [T-5190].
- [7] Marking: **[Ex] II 1 / 2 G c Ex de IIB T4 Ga/Gb**
- [8] The basic requirements of safety and health protection were realized by fulfilling the requirements specified in the following standards:
PN-EN 60079-0:2013-03+A11:2014-03; (EN 60079-0:2012+A11:2013);
PN-EN 60079-1:2010; (EN 60079-1:2007);
PN-EN 60079-7:2010; (EN 60079-7:2007);
PN-EN 60079-26:2007; (EN 60079-26:2007);
PN-EN 13463-1:2010; (EN 13463-1:2009);
PN-EN 13463-5:2012; (EN 13463-5:2011).
- [9] The marking was unchanged.

Signed by:

Specialist for the Explosionproof Products Certification

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Michał Gómy, Ph. D. Sc. Eng.

Manager of the Products Certification Team

(-) illegible signature

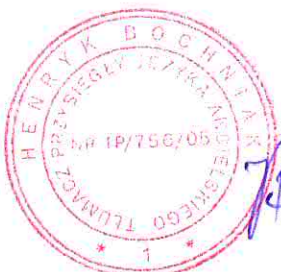
'Barbara' Experimental Coal Mine in MIKOŁÓW

Krzysztof Cybulski, Ph. D. Sc. Eng.

Round, official seal of the Central Mining Institute in Katowice - Certification Unit

Date of issue: 23rd March 2016

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The CENTRAL INSTITUTE of MINING "GIG"
Certification Unit
Products Certification Team of the KD 'Barbara' Experimental Coal Mine
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[10] **ANNEX / ENCLOSURE**

[11] **The supplement no. 6 certificate of the 'WE' type test – KDB 04 ATEX352**

[12] **Description of the changes implemented into the device or system:**

The Manufacturer introduced the new version of the Two-term Electric Level Controller / Switch type ERH-**-16-* in the version made of acidproof steel.

The technical documentation was updated.

The technical parameters were unchanged.

[13] **Special conditions of the usage:**
None.

Stamped by:

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Certification Unit*

The present certificate can be copied only in full version, together with the annexes.
PC/CM-ATEX-01/UEXXpl
Edition: 01 / 2015

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Ostrów Wlkp., 23rd April 2016
Translator's repertorium no.: 1 F / 14 / Aplsens / 2016

*I hereby certify the translation into English faithfulness with
the Polish Product Explosion-proof Certificate original shown to me*



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