



AC 038



KDB/TEX



Główny Instytut Górnictwa
Jednostka Certyfikująca
Zespół Certyfikacji Wyróbów
KD „Barbara”
ul. Podleska 72
43-190 Mikołów,
tel. (+48) 32 3246550
fax. (+48) 32 3224931
www.gig.katowice.pl

This certificate and its
schedules may only be
reproduced in its entirety and
without change

[1] **EC-TYPE EXAMINATION CERTIFICATE**



[2] Equipment, protective systems and components intended for use in
potentially explosive atmospheres - Directive 94/9/EC

[3] EC – type examination certificate:

KDB 07ATEX122X

[4] Equipment or protective system:

Field Communicator KAP-03Ex

[5] Manufacturer:

**APLISENS-Manufacture Of Pressure Transmitters
And Control Instruments**

[6] Address:

ul. Morelowa 7 , 03-192 Warszawa

[7] This equipment and any acceptable variation thereto is specified in the schedule to this
certificate and the documents therein referred to.

[8] Główny Instytut Górnictwa, Notified Body number 1453 in accordance with Article 9 of
Directive 94/9/EC of 23 March 1994, certifies that this equipment and 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 confidential report
KDB No. 07.078 [T-5989]

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

EN 60079-0:2004; EN 60079-11:2007

[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 and construction of the
specified equipment and protective system in accordance with Directive 94/9/EC.
Further requirements of the Directive may apply to the manufacturing process and supply of
this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:



**II 2G
ExiaIICT4**

Date of issue: 24.04.2007

Page 1 of 3

Date of English version: 24.04.2007

KIEROWNIK
Zespołu Certyfikacji Wyróbów
KD „BARBARA” Mikołów
doc. dr hab. inż. Krzysztof Cybulski



GŁÓWNY INSTYTUT GÓRNICZWA
KIEROWNIK
Jednostki Certyfikującej
dr inż. Dariusz Stefaniak

[13]

SCHEDULE

[14]

EC-Type Examination Certificate KDB 07ATEX122X

[15] **Description:**

The Field Communicator is designed to achieve digital communication (HART protocol) with intelligent transmitters pressure, differential pressure, temperature or others with output built as a standard current loop 4-20mA. The Communicator consists of printed circuit board, keyboard, accumulator battery and LCD display all mounted in plastic enclosure. In hazardous area the Communicator shell be closed in cover made of leather.

Technical parameters:

Supply	3.7V
Ta	-10°C÷+50°C

output/input parameters

$$U_o/U_i=3.9V/28VDC$$

$$I_o/I_i=17mA/93mA \text{ (linear)}$$

$$P_o/P_i=11mW/1W$$

$$C_i=26nF(2.2\mu F+10\%/220\Omega)$$

$$L_i=0$$



[16] **Test report:**

Report KDB No 07.078

[17] **Special conditions for safe use:**

- In hazardous area the Communicator shell be closed in cover made of leather

[18] **Essential health and safety requirements:**

Met by compliance with standards listed in section 9. of this Certificate.

[19] **Descriptive documents:**

User's Manual. Field Communicator KAP-03Ex	IO.KAP-03Ex	02.2007
Drawings		
Rating plate	KAP03-C001-02	02.2007
Diagram of electronics board KAP-03 rev2	KAP03-S001-02	02.2007
Diagram of battery assembly	KAP-S003-00	02.2007
Board assembly KAP-03 rev2(sheet 1÷6)	KAP03-B001-02	01.2007
Board assembly KAP03-PPZ	KAP03-B002-01	10.2006
LCD assembly	KAP03-B005-01	01.2007
Field Communicator KAP-03EEx(Sheet 1÷2)	KAP03-A001-02	02.2007

[13]

SCHEDULE

[14]

EC-Type Examination Certificate KDB 07ATEX122X

Enclosure assembly - top(sheet 1÷2)	KAP03-B003-02	02.2007
Enclosure assembly - bottom	KAP03-B004-02	02.2007
Battery assembly	KAP03-B007-00	02.2007
Battery subassembly	KAP03-B006-00	02.2007
Board assembly of battery(sheet 1÷2)	KAP03-B008-00	02.2007
Rating plate of fuse	KAP03-C006-00	02.2007
Facade	KAP03-C007-00	02.2007
Cover	KAP03-B009-00	02.2007





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[1] **SUPPLEMENT No 1**
to EC-TYPE EXAMINATION CERTIFICATE
KDB 07ATEX122X

[2] Equipment, protective systems and components intended for use in potentially explosive atmospheres - Directive 94/9/EC

[3] Equipment and protective system:
Field Communicator KAP-03Ex

[4] Manufacturer:
APLISENS S. A.


[5] Address:
ul. Morelowa 7, 03-192 Warszawa

[6] Changes were introduced to design or construction of component in accordance with the specification set out in the Schedule attached to this certificate and the documents therein referred to.

This document shall be held with the original Certificate.

The examination and test results are recorded in confidential report
KDB No. 07.078-1 [T-5989]

[7] Marking:

 **II 2G**
Ex ia IIC T4

[8] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2006; (PN-EN 60079-0:2009);

EN 60079-11:2007; (PN-EN 60079-11:2007)

[9] The marking will not change

PECAJALISTA ds. CERTYFIKACJI
PRZEPISÓW PRZECIWWYBUCHOWYCH


mgr inż. Wojciech Kwiatkowski



KIEROWNIK
Zespołu Certyfikacji WYROBÓW
KD "BARBARA" Mikołów


doc. dr hab. inż. Krzysztof Cybulski

Date of issue: 15.04.2010

Date of English version: 15.04.2010

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[10]

SCHEDULE

[11]

Supplement no 1 to EC-Type Examination Certificate KDB 07ATEX122X

[12] Description of the variation to the equipment or protective system:

The changes:

- are described in sheet of changes no.1 (KAP03-A000-02, 02.2010);
- have no impact on explosion safety

Technical data:

Supply	3.7V
Ta	-10°C÷+50°C

output/input parameters

$U_o/U_i=3.9V/30VDC$

$I_o/I_i=18.7mA/100mA$ (linear)

$P_o/P_i=18.2mW/1W$

$C_i=26nF$ (2.2 μF +10%/220 Ω)

$L_i=0$

[13] Special conditions for safe use:

- See original certificate KDB 07ATEX122X





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Product certification program
no: PCW-ISO/IEC-1b
CODE ICS 13.230



[1] **SUPPLEMENT No 2**
to EC-TYPE EXAMINATION CERTIFICATE
KDB 07ATEX122X

[2] Equipment, protective systems and components intended for use in potentially explosive atmospheres - Directive 94/9/EC

[3] Equipment and protective system:

Field Communicator KAP-03Ex

[4] Manufacturer:

APLISENS S.A.

[5] Address:


ul. Morelowa 7, 03-192 Warszawa, POLAND

[6] Changes were introduced to design or construction of component in accordance with the specification set out in the Schedule attached to this certificate and the documents therein referred to.

This document shall be held with the original Certificate.

The examination and test results are recorded in confidential report
KDB No. 07.078-2 [T-5989]

[7] Marking:


 **II 2G**
Ex ia IIC T4

[8] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2009; (PN-EN 60079-0:2009);

EN 60079-11:2012; (PN-EN 60079-11:2012);

[9] The marking will change to:

 **II 2G Ex ia IIC T4 Gb**

Specjalista ds. Certyfikacji
Urządzeń Przeciwwybuchowych

dr inż. Michał Górny



KIEROWNIK
Zespołu Certyfikacji WYROBÓW
KD „BARBARA” Mikołów
dr hab. inż. Krzysztof Cybulski, prof. GIG

Date of issue: 22.10.2012

Date of English version: 22.10.2012

[10]

SCHEDULE

[11]

Supplement no 2 to EC-Type Examination Certificate KDB 07ATEX122X

[12] **Description of the variation to the equipment or protective system:**

There is no change in the construction of the device. The reassessment has been performed of the safety Field Communicator KAP-03Ex. Pattern rating plate has been changed.

In the result of assessment it was found that the equipment fulfils requirement of standards listed in point 8 of this certificate and stays in accordance with Essential Health and Safety Requirements of 94/9/WE directive.

Technical data:

No changes

[13] **Special conditions for safe use:**

No changes

