



AC 038



KDB ATEX



Główny Instytut Górnictwa
Jednostka Certyfikująca
Zespół Certyfikacji WYROBÓW
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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:



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ExiaIICT4**

Date of issue: 24.04.2007

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Date of English version: 24.04.2007

K I E R O W N I K
Zespołu Certyfikacji WYROBÓW
KD „BARBARA” Mikołów

doc. dr hab. inż. Krzysztof Cybulski



**GŁÓWNY INSTYTUT GÓRNICTW
K I E R O W N I K**
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

