



AC 038



KDB ATEX



Central Mining Institute  
Certification Body  
Product Certification Team  
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] **SUPPLEMENTARY  
EC-TYPE EXAMINATION CERTIFICATE**

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

[3] Supplementary EC-Type Examination Certificate:

**KDB 05ATEX082/1**

[4] Equipment and protective system:

**Repeater power supply ZS-30Ex, ZS-31Ex**

[5] Manufacturer:

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

[6] Address:


**ul. Morelowa 7,03-192 Warszawa**

[7] This supplementary certificate extends EC-Type Examination Certificate No. KDB 05ATEX082 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

The examination and test results are recorded in confidential report number KDB No. 05.074/1 [T-5399]

[8] Marking:

I (M1) [EExia] I  
 II(1)G [EExia] IIC

Date of issue: 25.05.2006

Page 1 of 3

Date of English version: 7.08.2006

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

*doc. dr hab. inż. Krzysztof Cybulski*



GŁÓWNY INSTYTUT GÓRNICICTWA  
K I E R O W N I K  
Jednostka Certyfikująca

*dr inż. Dariusz Stefaniak*



[9]

**SCHEDULE**

[10] **Supplementary EC-Type Examination Certificate KDB 05ATEX082/1**

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

The following changes have been made in the device:

- electrical connections;
- circuit board unit;
- value of elements: D2, R109, R106, R105, D101, R7, R8, R25, R26;
- the following elements have been added : D103, C28.

**Technical parameters and marking of the device have not been changed.**

[12] **Test report:**

Report no. KDB No. 05.074/1

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

- none

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

See original certificate KDB 05ATEX082.



[15] **Descriptive documents:**

N°	Drawing name	Sheet	Drawing number
1.	Technical documentation of repeater power supply type ZS-30EEx. List of documentation.	1A 2A	ZS30EEx-A000-00
2.	ZS-30EEx repeater power supply. Scheme. Input circuit diagram. No ZS30EEx-B001-TA	1A	ZS30EEx-S001-TA
	ZS-30EEx repeater power supply. Scheme. Output circuit diagram. No. ZS30EEx-B002-TA for 4...20mA, 0...20mA, 0...5mA current outputs	2B	
	ZS-30EEx repeater power supply. Scheme. Output circuit diagram. No ZS30EEx-B002-TA for 0...10V, 0...5V, 1...5V, 2...10V voltage outputs.	2C	
3.	ZS-30EEx repeater power supply. Electronics boards lay-out.	1A	ZS30EEx-A001-TA
	ZS-30EEx repeater power supply. Plate lay-out	2A	
	Casing of repeater power supply ZS30EEx	3	



[9]

## SCHEDULE

[10]

### Supplementary EC-Type Examination Certificate KDB 05ATEX082/1

4.	Input circuit board unit. Reeved elements side view.	1A	ZS30EEx-B001-TA
	Input circuit board unit. ZS30EEx-WE print and SMD elements view.	2A	
	Input circuit board unit. Specification.	3A	
5.	Output circuit board unit. Reeved elements side view.	1A	ZS30EEx-B002-TA
	Output circuit board unit. ZS30EEx-WY print and SMD elements view.	2A	
	Output circuit board unit. Specification. version 01 (output 4...20mA), version 02 (output 0...20mA), version 03 (output 0...5mA)	4A 5A	
	Output circuit board unit. Specification. version 04 (output 0...10V), version 05 (output 0...5 V) version 06 (output 1...5V), version 07 (output 2...10 V)	6A 7A	
6.	Supplement (analysis AN.ZS-30EEx.01 section 8.8)	1	AN.ZS-30.31EEx.01
7.	Technical documentation of repeater power supply type ZS-31EEx. List of documentation.	1A	ZS31EEx-A000-00
		2A	
8.	ZS-31EEx repeater power supply. Scheme. Input circuit diagram No ZS31EEx-B001-TA	1A	ZS31EEx-S001-TA
9.	Input circuit board unit Reeved elements side plate view	1A	ZS31EEx-B001-TA
	Input circuit board unit ZS31EEx-WY print and SMD elements view.	2A	
	Input circuit board unit. Specification.	3A	
10.	Output circuit board unit. Specification Version 01 (output 4...20mA)	4A	ZS31EEx-B002-TA
	Output circuit board unit. Specification. Version 02 (output 0...20mA), version 03 (output 0...5mA)	5A	
	Output circuit board unit. Specification Version 04 (output 0...10V), version 05 (output 0...5 V)	6A	
	Output circuit board unit. Specification Version 06 (output 1...5V), version 07 (output 2...10 V)	7A	
11.	Supplement (analysis AN.ZS-31EEx.01 section 8.8)	1	AN.ZS-30.31EEx.01
12.	Sheet of changes n° 1	1	ZS30EEx-A000-02
		2	

