



AC 038



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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

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[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 05ATEX082

[4] Equipment or protective system:

Repeater power supply ZS-30EEx, ZS-31EEx.

[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] Central Mining Institute, 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 number KDB No. 05.074 [T-5399]
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997+A1:1999+A2:1999, EN 50020:2002.

- [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:

I (M1) [EEx ia] I II (1) G [EEx ia] IIC

Date of issue: 1.06.2005

Date of English version: 5.06.2006

Page 1 of 6

K I E R O W N I K Zespołu Gertyfikacji Wyrobów KD "BARBARA Mikołów doc. dr hab. inż. Krzysztol Cybulski



K I E R N I K

Jednostki Cervikujacej

dr inž. Dariusz Stefaniak





[13]

SCHEDULE

- [14] EC-Type Examination Certificate KDB 05ATEX082
- [15] **Description:**

Repeaters power supplies ZS-30EEx, ZS-31EEx are used for the intrinsically safe supply of 2-wire, 4...20mA transmitters located in a hazardous area (location), and convert the current into current/voltage in another circuit to drive safe area load. They are installed outside hazardous areas.

The electronic equipment is placed in a plastic (polyamide) casing manufactured by Phoenix (IP20 ingress protection). The ZS-30EEx and ZS-31EEx are produced in rail mounted version.

Technical data

Supply voltage	ZS-30EEx: rated 24VDC (21÷28VDC),		
Supply voltage	ZS-31EEx: 230VAC±10%		
Ambient temperature	-25 °C60 °C		
Input signal	intrinsically safe 420mA		
Output signal - version			
01	420mA,		
02	020mA,		
03	05mA,		
04	010V,		
05	05V,		
06	15V, 210V		
07			
Ingress protection	IP20		
Accuracy max.	0.1%		
nonlinearity	±0,05%		
time constant	50 ms typically; 0.1 1s on request		
location	outside hazardous zone		
Value of DC intrinsically safe output voltage	16V, 18V, 20V, 22V, or 24V		
Intrinsic safety parameters			
ZS-30EEx:	Terminals: P+ P-		
ZS-31EEx:	Li=0,66mH, Ci=30nF, Lo=2,2mH, Io=0,015A		
	$Uo = 16.8V$, $Po = 0.43W$, $Co = 0.36\mu F$		
	$Uo = 18,9V$, $Po = 0,60W$, $Co = 0,23\mu F$		
	$Uo = 21V$, $Po = 0.60W$, $Co = 0.155\mu F$		
	$Uo = 23,1V$, $Po = 0,60W$, $Co = 0,11\mu F$		
	$Uo = 25,2V$, $Po = 0,66W$, $Co = 0,077\mu F$		
ZS-30EEx:	Tarminals, V+ V I N Tarminals, II220V		
ZS-31EEx:	Terminals: V+ V-, LN Terminals: Um=230V		







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SCHEDULE

- [14] EC-Type Examination Certificate KDB 05ATEX082
- [16] Test report:

Report No. KDB Nr 05.074

- [17] Special condition for safe use:
 - none
- [18] Essential health and safety requirements:

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

[19] Descriptive documents:

Technical Documentation of ZS-30EEx and ZS-31EEx marked DT, ZS-30.31EEx01/March 2005.

Technical description	1, 2	ZS30EEx-A000-01
Rating plate	1	ZS30EEx-C001-TA
Front plate	1	ZS30EEx-C002-00
Terminal plates	1	ZS30EEx-C003-TA
ZS-30EEx repeater power supply. Scheme. Input circuit diagram. No ZS30EEx-B001-TA	1	ZS30EEx-S001-TA
ZS-30EEx repeater power supply. Scheme. Output circuit diagram. No. ZS30EEx-B002-TA for 420mA, 020mA, 05mA current outputs	2	
ZS-30EEx repeater power supply. Scheme. Output circuit diagram. No ZS30EEx-B002-TA for 010V, 05V, 15V, 210V voltage outputs	2A	
ZS-30EEx repeater power supply. Scheme. BA barrier diagram No ZS30EEx-B003-00"	3	
ZS-30EEx, ZS-31EEx repeater power supply. Scheme. BEx barrier diagram	4	
ZS-30EEx repeater power supply. Electronics boards lay-out. ZS-30EEx Plate lay-out	1	ZS30EEx-A001-TA







[13]

SCHEDULE

[14] EC-Type Examination Certificate KDB 05ATEX082

[19] Descriptive documents: continued

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Input circuit board unit. Specification. 3 1		2	ZS30EEx-B001-TA
Output circuit board unit. 1 Reeved elements side view. 2 Output circuit board unit. 2 Output circuit board unit. Version sheet. 3 Output circuit board unit. Specification. 4, 5 version 01 (output 420mA), version 02 (output 020mA), version 03 (output 05mA) 4, 5 Output circuit board unit. Specification. 6, 7 version 04 (output 010V), version 05 (output 05 V) 6, 7 version 06 (output 15V), version 07 (output 210 V) 1 Replacements 1 ZS30EEx-C020-00 BEx complete barrier. 1 ZS30EEx-B005-00 BEx barrier. 1 ZS30EEx-B006-00 Printed circuit. BEx barrier 1 ZS30EEx-B006-00 BA complete barrier 1 ZS30EEx-B003-00 BA barrier 1,2 ZS30EEx-B004-00 BA barrier 1,2 ZS30EEx-B004-00 Complete transformer 1 ZS30EEx-B010-00 Transformer – unit 1 ZS30EEx-B011-00 Transformer – printed circuit 1 ZS30EEx-B012-00 Winding 1			
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version 06 (output 15V), version 07 (output 210 V) Replacements 1 ZS30EEx-C020-00 BEx complete barrier. 1 ZS30EEx-B005-00 BEx barrier. 1 ZS30EEx-B006-00 Printed circuit. BEx barrier 1 ZS30EEx-B006-00 BA complete barrier 1 ZS30EEx-B003-00 BA barrier 1,2 ZS30EEx-B004-00 BA barrier- printed circuit 1 ZS30EEx-B004-00 Complete transformer 1 ZS30EEx-B010-00 Transformer – unit 1 ZS30EEx-B011-00 Transformer- printed circuit 1 ZS30EEx-B012-00 Winding + core unit 1 ZS30EEx-B012-00 Winding 1 ZS30EEx-B013-00 Winding casing 1 ZS30EEx-C005-00 Intrinsic safety standards compliance analysis of repeater power supply ZS-30EEx + Enclosure 1,2 and 3. 1+1+1 AN.ZS-30EEx.02 Technical description 1,2 ZS31EEx-A000-01		6.7	
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power supply ZS-30EEx + Enclosure 1,2 and 3. 1+1+1 AN.ZS-30EEx.02 Technical description 1,2 ZS31EEx-A000-01	Winding casing	1	ZS30EEx-C005-00
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Rating plate 1 ZS31EEx-C001-TA		1, 2	ZS31EEx-A000-01
	Rating plate	1	ZS31EEx-C001-TA





[13]

SCHEDULE

[14] EC-Type Examination Certificate KDB 05ATEX082

[19] Descriptive documents: continued

Front plate	1	ZS31EEx-C002-00	
Terminal plate	1	ZS31EEx-C003-TA	
ZS-31EEx repeater power supply. Scheme. Input circuit diagram No ZS31EEx-B001-TA	1	ZS31EEx-S001-TA	
ZS-31EEx repeater power supply. Scheme. Output circuit diagram No. ZS31EEx-B002-TA for 420mA, 020mA, 05mA current outputs.	2		
ZS-31EEx repeater power supply. Scheme. Output circuit diagram No ZS31EEx-B002-TA for 010V, 05V, 15V, 210V voltage outputs.	2A		
ZS-30EEx, ZS-31EEx repeater power supply. Scheme. BEx barrier diagram	4	ZS30EEx-S001-TA	
ZS-31EEx. repeater power supply. Electronics boards lay-out. ZS-31EEx. Plate lay-out	1 2	ZS31EEx-A001-TA	
Input circuit board unit Reeved elements side plate view	1	ZS31EEx-B001-TA	
Input circuit board unit ZS31EEx-WY print and SMD elements view.	2		
Input circuit board unit. Specification.	3		
Output circuit board unit Reeved elements side plate view.	1	ZS31EEx-B002-TA	
Output circuit board unit ZS31EEx-WY print and SMD elements view.	2		
Output circuit board unit. Version sheet.	3		
Output circuit board unit. Specification Version 01 (output 420mA)	4		
Output circuit board unit. Specification. Version 02 (output 020mA), version 03 (output 05mA)	. 5		
Output circuit board unit. Specification Version 04 (output 010V), version 05 (output 05 V)	6		
Output circuit board unit. Specification Version 06 (output 15V), version 07 (output 210 V)	7		







[13]

SCHEDULE

- [14] EC-Type Examination Certificate KDB 05ATEX082
- [19] Descriptive documents: continued

TS1 complete transformer	1	ZS31EEx-B110-00
Transformer unit	1	ZS31EEx-B111-00
Winding unit	1	ZS31EEx-B012-00
Winding casing	1	ZS31EEx-C005-00
TS1 transformer - printed circuit	1	ZS31EEx-C004-00
TS2 complete transformer	1	ZS31EEx-B120-00
TS2 transformer unit	1	ZS31EEx-B121-00
TS2 winding unit	1	ZS31EEx-B013-00
TS2 winding casing	1	ZS31EEx-C006-00
TS2 transformer - printed circuit	1	ZS31EEx-C007-00
Intrinsic safety standards compliance analysis of repeater power supply ZS-31EEx + Enclosure 1.	16 1	AN.ZS-31EEx.01

