



AC 038





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

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EC-TYPE EXAMINATION CERTIFICATE



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

[3] EC – type examination certificate:

KDB 08ATEX018

[4] Equipment or protective system:

ATX type Temperature Transmitter

[5] Manufacturer:

[1]

[2]

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.

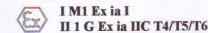
The examination and test results are recorded in confidential report KDB No. 08.019 [T-6132]

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

EN 50303:2000, EN 60079-0:2006, 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:



Date of issue: 4.02.2008

Date of English version: 3.03.2008





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WNI -R C Zespołu Certyfikacji Wyrobów KD "BARBARA" Mikołów Krzysztof Cybulski doc. dr hab. mz.



[13]

[14]

Główny Instytut Górnictwa Jednostka Certyfikująca Zespół Certyfikacji Wyrobów KD "Barbara"



SCHEDULE

EC-Type Examination Certificate KDB 08ATEX018

[15] Description :

ATX type Temperature Transmitters are a microprocessor measuring devices forcing current signal proportional to the input temperature signal from Pt or Ni temperature sensors in a two-wire current loop. Using microprocessor allows to digital signal processing (filtration, linearization), and sensor range and type programming.

The device is made as a disassembling module. The electronic circuit board is assembled in a plastic case and moulded. Trasmitter has five electrical terminals: two to device supply (No.1 and No. 2) and three to sensor connection (No. 3, No.4, No.5) in two or three wire measuring system. Device is designed to assembling in the standard temperature sensor head in the place of temperature sensor terminal.

Producer signing of device: $ATX / 1 / 2 \div 3 / 4$,

1 - sensor type: Pt or Ni;

 $2 \div 3 - {}^{O}C$ measuring range;

4 - sensor signal interrupt output current: 3,8mA or 23mA.

Technical parameters:

Input signal	$10 \leq \Delta R \leq 380\Omega$
Output signal	420mA
Supply voltage	1028VDC
Load resistance	500Ω max.
Measurement error	$\pm 0,2\%$, (min 0,25% °C /0,1 Ω)
Input line resistance changes error	$\leq \pm 0.016\%$ (measured value)/1 Ω
Ambient temperature	- 40°C +80 °C
Relative humidity	3080%
Constant and variable magnetic field	0400A/m
Sinusoidal vibrations (in the range from	to 2g
5 to 80Hz)	
Operating position	any
Atmosphere components	no aggressive components
Installation place	standard temperature sensor head in the place of temperature sensor
	terminal.



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SCHEDULE

[13] [14]

EC-Type Examination Certificate KDB 08ATEX018

[15] Description sequel:

Degree of protection	IP6X device, IP00 terminals
Programming terminals	To programming under production and repair only
Intrinsic parameters:	
Supply terminals: $1(+)$ and $2(-)$): $Ui = 28V$, $Ii = 100mA$, $Pi = 1,2W$,
	$Li = 20\mu H, Ci = -0,$
Input terminals 4 + 5 and 3: Uc	$p = U_i, 10 = 3,3mA, Po = 20mW,$

Temperature class device (Tx), ambient temperature (Ta) and supply power (Pi) dependence:

	Та					
Pi [W]	80°C	70°C	60°C T5	50°C		
1,2			T5			
1,0	T4					
0,8		T5	T6	T6		
0,7						
0,6	T5					
0,5						



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[13]	[13] SCHEDULE									
[14]	4] EC-Type Examination Certificate KDB 08ATEX018									
	Test report: Report KDB No 08.019									
[17]	Special conditions for safe use: -any									
	Essential health and safety requirements: Met by compliance with standards Certificate.	listed	in	section	9. of	this:				
[19]	Descriptive documents:									
	 DT.ATX.01 Technical Documentation: ATX type head temperature transmitter Construction drawing schedule ATX type head temperature transmitter Technical description Rating plate ATX type head temperature transmitter Circuit diagram Printed-circuit board unit ATX type head temperature transmitter Transmitter case Basis Terminal Electrical board 		1 1,2,3 1 1,2 1 1,2 1 1 1 1 1	AT-A000 AT-C005 AT-S001 AT-B001 AT-A001 AT-C001 AT-C002 AT-C003 AT-C004	-00 -TA -00 -TA -00 -00 -00 -00	-				



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