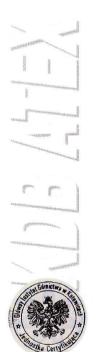




AC 038



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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PC/CM-ATEX-01/ExXen Edition 01/2015

EC-TYPE EXAMINATION CERTIFICATE [1]



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

[3] EC – type examination certificate:

KDB 15ATEX0080X

[4] Equipment system:

Smart temperature transmitter type LI-24G

[5] Manufacturer:

APLISENS S.A.

[6] Address:

ul. Morelowa 7, 03-192 Warszawa, POLAND

- This equipment and any acceptable variation thereto is specified in the schedule to this [7] certificate and the documents therein referred to.
- Główny Instytut Górnictwa, Notified Body number 1453 in accordance with Article 9 of [8] 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. examination and test results recorded confidential

KDB No. 15.109 [T-7317]

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

EN 60079-0:2012 + A11:2013; EN 60079-11:2012;

EN 50303:2000; EN 60079-26:2007)

- [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.
- This EC-type examination certificate relates only to the design and construction of the [11]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.
- The marking of the equipment shall include the following: [12]

I M1 Ex ia I Ma II 1G Ex ia IIC T5/T6 Ga II 1D Ex ia IIIC T105°C Da

Specialista ds. Certyfik Urządzeń Przeciwwybuchow

nż. Michał Górny

Date of issue: 26.10.2015



fikacji Wy wòdor dr hab. inż. Krzysztof Cybulski, rof. GIG

Page 1 of 3



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



13

SCHEDULE

14

EC-Type Examination Certificate KDB 15ATEX0080X

[15] **Description:**

Smart temperature transmitter type LI-24G is designed for temperature measuring in various industrial applications related to measurements, control and regulation. Smart temperature transmitter type LI-24G consist of a sealed housing of plastic material and the electronic unit placed inside that converts signal from the sensor to a unified output signal $4\div20\text{mA}$ + HART. Smart temperature transmitter type LI-24G has 5 terminals for measuring input and 2 terminals for power supply and signal output. Measuring inputs allow for single- or dual-channel measurement of difference, average, average with redundancy, minimum and maximum temperatures.

Technical parameters:

Thermocouple, resistance sensor,								
resistance or voltage								
420 mA + HART								
8,5 ÷ 30V DC								
IP10								
$-50 \div +70$ °C for group II, T5 and T105°C								
$-50 \div +50$ °C for group II, T6								
$-20 \div +60$ °C for group I								
$-50 \div +60$ °C for group II, T5 and T105°C								
$-50 \div +40$ °C for group II, T6								

Intrinsic safety parameters:

The permissible parameters of the sensor supply circuits: Uo= 6V; Io= 10mA; Po= 15mW;

Lo [mH]	100	50	20	10	5	2	1	0,5	0,2	0,1	0,05
Co [µF]	1,3	1,4	1,6	1,8	2	2,4	2,7	3,2	4	4,8	6

The permissible parameters of the transmitter power supply circuits:

- Supply from a power source with linear output characteristic: Ui= 30V; Ii= 0,1A; Pi= 0,75W; Li=0, Ci= 5nF
- Supply from a power source with trapezoidal output characteristic: Ui= 24V; Ii= 50mA; Pi= 0,6W; Li=0, Ci= 5nF
- Supply from a power source with rectangular output characteristic:

Ui= 24V; Ii= 25mA; Pi= 0,6W; Li=0, Ci= 5nF

Ui= 24V; Ii= 50mA; Pi= 1,2W; Li=0, Ci= 5nF

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SCHEDULE

EC-Type Examination Certificate KDB 15ATEX0080X

[16] Test report:

Sprawozdanie KDB Nr 15.109

[17] Special conditions for safe use:

Smart temperature transmitter type LI-24G is designed for installation:

- group I: in a metal housing with a minimum degree of protection IP54
- group II: in a metal housing with a minimum degree of protection IP20.
- group III: in a metal housing with a minimum degree of protection IP5X.

[18] Essential health and safety requirements:

Met by compliance with standards listed below:

EN 60079-0:2012 + A11:2013 (PN-EN 60079-0:2013-03 + A11:2014-03);

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

EN 50303:2000 (PN-EN 50303:2004);

EN 60079-26:2007 (PN-EN 60079-26:2007);

