



EU TYPE EXAMINATION CERTIFICATE

[2] Equipment and protective systems intended for use in potentially explosive atmospheres. Directive 2014/34/EU (Rozporządzenie Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817)

[3] EU type examination certificate (module B):

KDB 17ATEX0035

1st edition

[4] Equipment:

**Electropneumatic positioner type
APIS-XX0-...-REx-...-IHX-..., APIS-XX1-...-REx-...-IHX-...,
APIS-XX2-...-REx-...-IHX-... and APIS-XX4-...-REx-...-IHX-...**

[5] Manufacturer:

APLISENS S.A.

[6] Address:

ul. Morelowa 7, 03-192 Warszawa, POLAND

[7] The equipment or protective system and any acceptable variations thereto are specified in the schedule to this certificate.

[8] Główny Instytut Górnictwa, Notified Body no 1453 according to Directive 2014/34/EU of February 26, 2014, approves that the equipment or protective system specified in this certificate has been found to comply with the essential health and safety requirements for the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere given in Annex II to Directive 2014/34 /EU (Załącznik nr 2 Rozporządzenia Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817). The results of the assessment and examinations as well as the list of agreed documentation are recorded in the confidential Report **KDB No 17.043-1 [T-7453]**

[9] The essential health and safety requirements have been met by compliance with the requirements of the following standards:

EN IEC 60079-0:2018; EN 60079-11:2012

[10] If sign "X" is placed after the certificate number, this means the special conditions of use set out in the schedule to this certificate.

[11] This EU type examination certificate relates only to the construction, assessment and testing of the specified product in accordance with Directive 2014/34 /EU (Rozporządzenie Ministra Rozwoju z dnia 06.06.2016r. Dz.U. z dnia 09.06.2016r. Poz. 817). The certificate shall not cover the remaining requirements of the Directive regarding the manufacturing process and placing the equipment or protective system on the market.

[12] The marking of the equipment:



II 2G Ex ia IIC T5/T6 Gb

mgr inż. Piotr Madej

madej
ATEX Certification
Expert



Główny Instytut Górnictwa
KIEROWNIK
Jednostki Oceny Zgodności
dr inż. Dariusz Stefaniak

Date of issue: 29 July 2022

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SCHEDULE
EU type examination certificate
KDB 17ATEX0035 1st edition



[15] Description:

The APIS* electropneumatic positioner is a device that converts the 4-20mA signal into a pneumatic output signal.

The two-chamber enclosure of positioner made of aluminum alloy contains electronic equipment, electropneumatic transducer(s) and pressure sensor in the main chamber. In the connection chamber there is a terminal strip and two protective terminals. The enclosure is equipped with an external earth terminal.

The enclosure is also equipped with:

- pneumatic connections for connecting the positioner with a pneumatic actuator and a source of pneumatic power supply;
- manometers for measuring the pressure of the supply and output pressures.

Technical parameters:

Degree of protection: IP65

Ambient temperature:

Execution without manometers or with stainless steel manometers:

-40°C ÷ 45°C for T6,

-40°C ÷ 80°C for T5

Executions with manometers in stainless steel or carbon steel enclosure:

-25°C ÷ 45°C for T6,

-25°C ÷ 60°C for T5

Intrinsically safe parameters:

terminals 1, 2 and terminals 7, 8:

$C_i = 11 \text{ nF}$, $L_i = 0,205 \text{ mH}$ and:

- supply with a linear characteristics:

temperature class T5 and $T_a \leq 80^\circ\text{C}$: $U_i = 30 \text{ V}$, $I_i = 0,13 \text{ A}$, $P_i = 1 \text{ W}$;

temperature class T6 and $T_a \leq 45^\circ\text{C}$: $U_i = 30 \text{ V}$, $I_i = 0,1 \text{ A}$, $P_i = 0,75 \text{ W}$;

- supply with a rectangular characteristics:

temperature class T5 and $T_a \leq 80^\circ\text{C}$: $U_i = 24 \text{ V}$, $I_i = 0,05 \text{ A}$, $P_i = 1,2 \text{ W}$;

temperature class T6 and $T_a \leq 45^\circ\text{C}$: $U_i = 24 \text{ V}$, $I_i = 0,025 \text{ A}$, $P_i = 0,6 \text{ W}$;

- supply with a trapezoidal characteristics

temperature class T5 and $T_a \leq 80^\circ\text{C}$: $U_i = 24 \text{ V}$, $I_i = 0,1 \text{ A}$, $P_i = 1,2 \text{ W}$;

temperature class T6 and $T_a \leq 45^\circ\text{C}$: $U_i = 24 \text{ V}$, $I_i = 0,05 \text{ A}$, $P_i = 0,6 \text{ W}$;

Terminals 3, 4, 5 (the external position transducer):

$U_o = 6 \text{ V}$, $I_o = 75 \text{ mA}$, $P_o = 0,12 \text{ W}$, $C_o = 2,5 \text{ }\mu\text{F}$, $L_o = 0,7 \text{ mH}$.

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[16] Test Report:

“ATEX assessment report” KDB No 17.043-1

[17] Special conditions of use:

Not applicable

[18] Essential health and safety requirements:

Met by fulfilling the requirements of the following standards:

EN IEC 60079-0:2018 (PN-EN IEC 60079-0:2018-09)

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

Document history:

- EU type examination certificate KDB 17ATEX0035 edition 0 of June 28, 2017, initial certification.

- EU type examination certificate KDB 17ATEX0035 edition 1st of July 29, 2022 replaces EU type examination certificate KDB 17ATEX0035 edition 0 of June 28, 2017.

Design changes have been made to the electronic system. The list of harmonized standards, intrinsically safe parameters and documentation has been updated.

