



Physical Technical Testing Institute
Ostrava-Radvanice



EC-Type Examination Certificate

(1)

(2)

Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

(3) EC-Type Examination Certificate Number:

FTZÚ 10 ATEX 0093

(4) Equipment or protective system: **Electropneumatic Positioner type APIS -...**

(5) Manufacturer: **APLISENS S.A.**

(6) Address: **ul. Morelowa 7, 03-192 Warszawa, Poland**

(7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or 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 N°

10/0093 dated 28.07.2010

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 60079-0 : 2009; 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, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive 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 following:



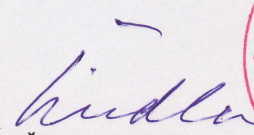
II 2G Ex ia IIC T6/T5 Gb

This EC-Type Examination Certificate is valid till:

28. 07. 2015

Responsible person:

Date of issue: 28.07.2010


Dipl. Ing. Šindler Jaroslav
Head of certification body



Number of pages: 3
Page: 1/3

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This certificate may only be reproduced in its entirety and without any change, schedule included.



Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 10 ATEX 0093**

(15) Description of Equipment or Protective System:

The Electropneumatic Positioner series APIS converts an electrical signal 4 to 20 mA to a proportional pneumatic signal designed to control external actuator. The apparatus comprises a printed circuit board with electronics, an E/P transducer, connecting terminals and a potentiometer, all housed in an enclosure made of light alloy. Optionally a potentiometer is mounted outside the equipment. The enclosure cover comprises a transparent lid which enables viewing on LCD. External connections are made via integral terminals.

Input/output parameters and temperature class of equipment:

Input circuit, terminals 1, 2:

a) for supply from a source with linear output characteristic:

$U_i = 30 \text{ V DC}$; $I_i = 0,1 \text{ A}$; $P_i = 0,75 \text{ W}$; $C_i = 15 \text{ nF}$; $L_i = 0,05 \text{ mH}$, $T_a \leq 80^\circ\text{C}$ T5; $T_a \leq 45^\circ\text{C}$ T6

b) for supply from a source with rectangular output characteristic:

$U_i = 24 \text{ V DC}$; $I_i = 0,025 \text{ A}$; $P_i = 0,6 \text{ W}$; $C_i = 15 \text{ nF}$; $L_i = 0,05 \text{ mH}$, $T_a \leq 80^\circ\text{C}$ T5; $T_a \leq 45^\circ\text{C}$ T6

c) for supply from a source with trapezoidal output characteristic:

$U_i = 24 \text{ V DC}$; $I_i = 0,05 \text{ A}$; $P_i = 0,6 \text{ W}$; $C_i = 15 \text{ nF}$; $L_i = 0,05 \text{ mH}$, $T_a \leq 80^\circ\text{C}$ T5; $T_a \leq 45^\circ\text{C}$ T6

Output circuit, terminals 6 and 7:

a) for supply from a source with linear output characteristic:

$U_i = 30 \text{ V DC}$; $I_i = 0,1 \text{ A}$; $P_i = 0,75 \text{ W}$; $C_i = 15 \text{ nF}$; $L_i = 0,002 \text{ mH}$, $T_a \leq 80^\circ\text{C}$ T5; $T_a \leq 45^\circ\text{C}$ T6

b) for supply from a source with rectangular output characteristic:

$U_i = 24 \text{ V DC}$; $I_i = 0,025 \text{ A}$; $P_i = 0,6 \text{ W}$; $C_i = 15 \text{ nF}$; $L_i = 0,002 \text{ mH}$, $T_a \leq 80^\circ\text{C}$ T5; $T_a \leq 45^\circ\text{C}$ T6

c) for supply from a source with trapezoidal output characteristic:

$U_i = 24 \text{ V DC}$; $I_i = 0,05 \text{ A}$; $P_i = 0,6 \text{ W}$; $C_i = 15 \text{ nF}$; $L_i = 0,002 \text{ mH}$, $T_a \leq 80^\circ\text{C}$ T5; $T_a \leq 45^\circ\text{C}$ T6

External position transmitter (potentiometer), terminals 3, 4, 5:

$U_o = 6 \text{ V DC}$; $I_o = 67 \text{ mA}$; $C_o = 200 \text{ nF}$; $L_o = 100 \mu\text{H}$

(16) Report No. : 10/0093

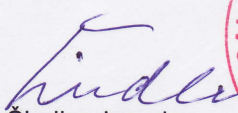
(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

Essential health and safety requirements of Directive 94/9/EC are covered by standards mentioned in (9), according which the product was verified and in manufacturer's instruction for use.

Responsible person:

Date of issue: 28.07.2010


Dipl. Ing. Šindler Jaroslav
Head of certification body



Page: 2/3

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This certificate may only be reproduced in its entirety and without any change, schedule included.



Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 10 ATEX 0093**

(19)

LIST OF DOCUMENTATION

| Documentation: | Date: |
|--|--------------|
| 1. Technical documentation | 05/2010 |
| 2. Drawings No.: | |
| APIS-XXX-...-REx-...-000 (2 sheets) | 05/2010 |
| APIS-XXX-...-REx-...-001 description (7 sheets) | 01/2010 |
| APIS-XXX-...-REx-... (sheet No. 1, 3, 5) | 05/2010 |
| APIS-XXX-...-REx-... (sheet No. 2, 4) | 01/2010 |
| APIS-B002-100 | 02/2010 |
| APIS-B007- | 02/2010 |
| APIS-B008- (4 sheets) | 02/2010 |
| APIS-B010-100 | 03/2009 |
| APIS-B019-100 | 07/2009 |
| APIS-B020- | 03/2010 |
| APIS-B023- (2 sheets) | 02/2010 |
| APIS-B025- | 03/2010 |
| APIS-B026-100 | 03/2010 |
| APIS-S001-100 | 04/2010 |
| APIS-B101- (9 sheets) | 05/2010 |
| APIS-B102-100 (4 sheets) | 05/2010 |
| APIS-B103-100 | 04/2010 |
| APIS-C003-100 | 04/2010 |
| APIS-C026-100 | 03/2009 |
| APIS-C027-100 | 05/2010 |
| APIS-C027-200 | 05/2010 |
| APIS-C055-100 | 02/2010 |
| APIS-C056-100 | 02/2010 |
| APIS-C101-100 (3 sheets) | 05/2010 |
| APIS-C102-100 | 04/2010 |
| APIS-C103-100 | 02/2010 |
| APIS-D001-100 (sheets No. 1, 2, 3) | 02/2009 |
| APIS-D001-100 (sheet No. 4) | 10/2009 |
| APIS-D002-100 (sheets No. 1) | 08/2008 |
| APIS-D002-100 (sheets No. 2 and 3) | 04/2010 |
| APIS-H002- | 03/2010 |
| APIS-H003- | 04/2010 |
| MBM-E/P-002E | 04/2010 |
| 3. Analysis of compliance with EN requirements No.: AN; APIS-XXX-...-REx-... (16 pages and 13 annexes) | |
| 4. Instruction manual No. IO-APIS | 04/2010 |

Responsible person:

Date of issue: 28.07.2010


Dipl. Ing. Šindler Jaroslav
Head of certification body

Page: 3/3



This certificate is granted subject to the general conditions of the Physical Technical Testing Institute.
This certificate may only be reproduced in its entirety and without any change, schedule included.