



Physical Technical Testing Institute
Ostrava-Radvanice



EC-Type Examination Certificate

- (1) **EC-Type Examination Certificate**
(2) **Equipment or Protective Systems Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

(3) EC-Type Examination Certificate Number:

FTZÚ 02 ATEX 0309

(4) Equipment or protective system: **Pressure and temperature regulator model range 61*****

(5) Manufacturer: **ZPA EKOREG Ltd.**

(6) Address: **Děčínská 55, 400 99 Ústí nad Labem, CZ**

(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°

02/0309 dated November 2002


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

EN 50014:1997+A1+A2; EN 50018:2000; EN 50019:2000; EN 50 281-1-1:1998;

(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 D T 50 °C EEx d e IIC T6**

This EC-Type Examination Certificate is valid till: **31. 12.2007**

Responsible person:


Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 28.12.2002

Number of pages: 1/4

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 02 ATEX 0309**

(15) Description of Equipment or Protective System:

Pressure and temperature regulators serie 61*** are determined for two – state regulation or signalling of pressure or temperature. Differential regulators are defined for regulation of difference of two pressures.

Pressure and temperature regulators model range 61xxx are indepently mounted, ciclically working control equipment with sensor to scan relevant lower and upper value among them the equipment is on duty to operate. At exceeding of adjusted values control equipment is switching over contacts, which control it's own regulation. Regulator consists of sensor and switch apparatus. The baseplate creates a set with a holder for cover mounting from plastic in type of Ex-protection EExe, that is fitted with controlling screws for possibility of setting of lower and upper values of relevant physical values with possibility of sealing. Microswitch is constructed in type of Ex-protection EExd. Entry of connecting cabel into the regulator is by means of EExe-protected cable gland.

Futher details see the Instruction for user (12/02) and supplement to the Instruction:

- Regulators a bellows, membranenous and difference type delimiters of pressure model 61214, 61215, 61216, 61218, 61219, 61220 61242 dated 12/02 and supplement to the Instruction dated 12/02.
- Regulators and capillary, shank and cubical type of delimiters of temperature model 61126, 61134 dated 12/02 and supplement to the Instruction dated 12/02.

(16) Test Report: No. 02/0309 dated 11/2002 (57 pages)

Test Protocol No.: 02.0451-14; 02.0451-13; 02.0451-42; 02.0451-12; 02.0451-18; 02.0451-33;
02.0451-19; 02.0451-6; 02.0451-21;

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

18.1 Fulfilled above mentioned standards.

18.2 Observe the Instructions:

Regulators and bellows, membranenous and difference type of delimiters of pressure type 61214, 61215, 61216, 61218, 61219, 61220, 61242 (TP 26/33/04-97, variantion „a“, „b“; TP 27/33/04-97, variantion „a“, „b“; TP 28/33/04-97, variantion „a“, „b“, „c“, „d“, „e“) dated 12/2002.

Regulators and capillary, shank and cubical type of delimiters of temperature type 61126, 61127, 61134 (TP 30/33/04-97; TP 29/33/04-97) and supplement to the Instruction for pressure and temperature regulators Ex-protected type dated 12/2002.

Responsible person:

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 28.12.2002

Number of pages: 2/4

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(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 02 ATEX 0309**

(19)

LIST OF DOCUMENTATION

- **Design key** dated 27.11.2002

- **Drawing No**

MA Ex I		10.12.2002
0 411 151 90101 + 0 422 254 90300 „f“	3 sheets	01.11.2002
0 411 161 90101 + 0 422 264 90300 „f“	3 sheets	01.11.2002
0 422 255 90100 + 90200 „a“		01.11.2002
0 422 265 90100 + 90200 „a“		01.11.2002
0 411 051 80100		22.04.2002
0 411 052 80100		22.04.2002
1 421 252 60100		01.11.2002
1 421 252 60200		01.11.2002
1 421 252 60103		01.11.2002
1 421 252 60203		01.11.2002
421 222 00102 + 00103 „c“		01.11.2002
421 222 00200 „b“		22.04.2002
421 252 20400		10.12.2002
421 252 20300		10.12.2002
1 411 051 60300		22.04.2002
411 051 00100 „c“		22.04.2002
411 052 00200 „c“		22.04.2002
411 051 00300 „c“		01.11.2002
2 411 051 01000 „a“		22.04.2002
2 411 051 01100		22.04.2002

- **Regulation of production and identification and specification of switch apparatus**

Ex 1 A2 č. 9 411 051 09500 (33 sheets)	dated 22.04.2002
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- **Drawing No:**

0 411 002 83300 „i“	dated 01.11.2002
0 411 002 84300 „i“	01.11.2002
0 411 002 85300 „i“	01.11.2002
0 411 002 83500 „e“	01.11.2002
411 002 00100 „f“	22.04.2002
2 411 002 00204 + 00205 i	01.11.2002
2 411 002 00302	22.04.2002
1 421 222 60401 „b“	22.04.2002
411 001 01100 „d“	22.04.2002
411 001 01200 „e“	22.04.2002
411 001 01300 „d“	22.04.2002
421 252 20100	22.04.2002
421 252 20200	22.04.2002
2.421 252 00100	22.04.2002
2.421 252 00200	22.04.2002
2.411 001 01101	22.04.2002



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(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 02 ATEX 0309**

(19)

LIST OF DOCUMENTATION

- Specification TP 26/33/04-97, variation „a“, „b“ z 25.11.2002 (21 str.)
- Specification TP 27/33/04-97, variation „a“, „b“ z 25.11.2002 (18 str.)
- Specification TP 28/33/04-97, variation „a“, „b“, „c“, „d“, „e“ z 25.11.2002 (20 str.)
- Specification TP 30/33/04-97, variation „a“, „b“ z 25.11.2002 (29 str.)
- Instruction for user:
Regulators and bellows, membranous and difference type of delimiters of pressure model 61214, 61215, 61216, 61218, 61219, 61220, 61242 (TP 26/33/04-97; TP 26/33/04-97; TP 28/33/04-97) dated 10.12.2002

Regulators and cappillary, shank and cubical type of delimiters of the temperature model 61126, 61134 (TP 30/33/04-97; TP 29/33/04-97) dated 10.12.2002
- Supplement to the Instruction for user for Ex-protected regulators, dated 10. 12. 2002 (4 pages)
- Catalogue dates and specification sheet of manufacturer fa Bayer to material Makrolon 9415 Z (ATI 810 d,e)
- Catalogue dates and specification sheet of manufacturer fa Bayer to material Makrolon 2800 (ATI 303)
- Catalogue dates and specification sheet of manufacturer fa Bayer to material Makrolon VALOX 362