



## 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 05 ATEX 0371X**

- (4) Equipment: **Flammable gas detector sensing head, type: EKP-1/N**  
(5) Manufacturer: **Z.B.P. "SENSOR GAZ" Andrzej Rejowicz**  
(6) Address: **ul. Biskupa Burschego 7, 43-100 Tychy, 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°

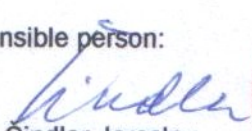
**05/0371 dated 23 January 2006**

- (9) Compliance with Essential Health and safety requirements has been assured by compliance with:  
**EN 50014: 1997 +A1,A2, EN 50018: 2000, EN 50020: 2002**  
(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 EEx d ia IIC T5**

This EC-Type Examination Certificate is valid till: **31. 01. 2011**

Responsible person:

  
Dipl. Ing. Sindler Jaroslav  
Head of certification body



Date of issue: **25. 01. 2006**

Page: 1

Number of pages: 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 05 ATEX 0371X**

(15) Description of Equipment:

The sensing head of flammable gas detector is a device consisting of steel chamber, equipped with breathing device made of sintered metal. Inside of chamber is installed one active pelistor with catalytic layer and one compensation element. The connection of sensing head is provided by bare conductors protruding the encapsulant, which close flameproof enclosure "d" of chamber. The connection device is designed only for connection of intrinsically safe circuits "i".

Basic technical data:

Supply voltage:	DC 3,0 V . . . 3,5 V.
Rated current:	≤ 60 mA
Intrinsically safe input parameters, pins No. (2-3):	$U_i = 10 \text{ V}$ , $L_i = 200 \mu\text{H}$ , $C_i \cong 0$
	Total input power: $P_i = 1 \text{ W}$

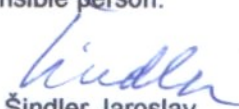
(16) Report No. : 05/0371 (38 pages, 9 annexes)

(17) Special conditions for safe use:

- part of apparatus, which is formed by free surface of encapsulant with terminal connector, must be protected by additional cover, complying the requirements of impact endurance according to EN 50014:1997 cl. 23.4.3.1.
- the connection device of sensing head of flammable gas detector is designed for connection only intrinsically safe circuits.
- the performance test are not in the scope of this certificate.

(18) Essential Health and Safety Requirements: They are included in standards, which are mentioned in clause (9) of this certificate. The product was approved in accordance with above mentioned standards and manufacturer instruction.

Responsible person:

  
Dipl. Ing. Šindler Jaroslav  
Head of certification body



Date of issue: 25. 01. 2006

Page: 2

Number of pages: 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 05 ATEX 0371X**

(19)

LIST OF DOCUMENTATION

• Instruction for use No.: IO 001/1	01/2006
• Approval report No. 3/10/05	01/2006
• Drawings No.:	
001.00 – 0/1	09/2005
001.00 – 1/1	09/2005
001.00 – 2/1	09/2005
001.00 – 3/1	09/2005
001.00 – 4/1	09/2005
001.00 – 5/1	09/2005
001.00 – 6/1	09/2005
001.00 – 7/1	09/2005
001.00 – 8/1	09/2005
001.00 – 9/1	09/2005
001.00 – 10/1	09/2005
• Technological instructions No. IT 001/1	10/2005
• Technological instructions IT 002/1	10/2005



Date of issue: 25. 01. 2006

Page: 3

Number of pages: 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.