



Physical-Technical Testing Institute  
Ostrava - Radvanice



(1) **Supplementary EU - Type Examination Certificate No.1**

- (2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 2014/34/EU)**

- (3) EU - Type Examination Certificate number:

**FTZÚ 14 ATEX 0108X**

- (4) Product: **Gas detector sensing head type EKP-2/P**

- (5) Manufacturer: **Z.B.P. "SENSOR GAZ" Andrzej Rejowicz**

- (6) Address: **ul. Przemysłowa 55, 43-100 Tychy, Poland**

- (7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 14 ATEX 0108X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

- (9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

- (10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018; EN 60079-1:2014, EN 60079-11:2012**

- (11) The marking of the product shall include the following:



**II 2G Ex db ia IIC T5 Gb**

- (12) This certificate is valid till: **31.03.2025**

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 16.03.2020

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**Physical-Technical Testing Institute  
Ostrava - Radvanice**

(13)

**Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 1  
to FTZÚ 14 ATEX 0108X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- prolongation of certificate validity;
- documentation updating;
- evaluation of the product according to the standards: EN IEC 60079-0:2018 and EN 60079-1:2014;
- equipment Ex marking is changed from "d" to "db" according to EN 60079-1:2014.

Technical parameters and construction of the product remain unchanged.

(16) Report Number.: 14/0108/1 dated 16.03.2020

(17) Specific Conditions of Use:

None additional to those listed previously.

(18) Essential Health and Safety Requirements:


Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number	Sheets	Revision	Date
IO 008/2	3	2	02/2020
5/01/14-2	4	2	02/2020
IT 008/2	2	2	02/2020
060.01-05	1	issue 2	02/2020

Responsible person:

Date of issue: 16.03.2020

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



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## 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 14 ATEX 0108X**

(4) Equipment: **Gas detector sensing head type EKP-2/P**

(5) Manufacturer: **Z.B.P. "SENSOR GAZ" Andrzej Rejowicz**

(6) Address: **ul. Przemysłowa 55, 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°:

**14/0108 dated 26.02.2015**


(9) Compliance with Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012 EN 60079-1:2007 EN 60079-11:2012**

(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 the following:

 **II 2G Ex d ia IIC T5 Gb**

This EC-Type Examination Certificate is valid till: **26.02.2020**

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 26.02.2015

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FTZÚ, s.p., Pikartská 1337/7, 716 07 Ostrava-Radvanice, Czech Republic,  
tel +420 595 223 111, fax +420 596 232 672, ftzu@ftzu.cz, www.ftzu.cz



Physical Technical Testing Institute  
Ostrava – Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 14 ATEX 0108X**

(15) Description of Equipment or Protective System:

The sensing head of flammable gas detector type EKP-2/P is a device consisting of stainless steel chamber, which contains breathing device of sintered metal. Inside of a chamber is installed a semiconductor sensor with integrated heating element. The connection device of sensing head forms bare conductors (pins) protruding the compound, which closes chamber flameproof enclosure "d".

Nominal parameters:

heating circuit: AC/DC 5.0 V  $\pm$  0.2 V; I<sub>max</sub> = 56  $\pm$  5 mA

sensor circuit: DC 5.0 V  $\pm$  0.2 V; P<sub>s</sub>  $\leq$  15 mW

Intrinsically safe parameters:

P<sub>i</sub> = 0.915 W

U<sub>i</sub> = 10 V

L<sub>i</sub>  $\approx$  0; C<sub>i</sub>  $\approx$  0

Note: Heating circuit and sensor circuit can't be considered as separated circuits in accordance with clause 6.3 EN 60079-11:2012.

Ambient temperature: -20°C  $\leq$  T<sub>a</sub>  $\leq$  +40°C

(16) Report No.: 14/0108

(17) Special conditions for safe use:

- 17.1 The connection facilities of the gas detector sensing head is designed only for connection to the intrinsically safe circuits.
- 17.2 The connection facilities, that forms free surface of insulating compound with connections pins, must be protected by additional cover or enclosure complying requirements for enclosures according to EN 60079-0 with degree of protection IP20 at least. Insulating compound surface must be protected against light.
- 17.3 Performance tests of detectors for flammable gases are not matter of this certificate.

Responsible person:

  
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(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 14 ATEX 0108X**

(18) Essential Health and Safety Requirements:

They are included in standards, which are mentioned in clause (10) of this certificate according which was equipment certified.

(19) List of Documentation:

<i>Document No.:</i>	<i>Date:</i>
5/01/14-1	01/2014
IT 008/1	01/2014
IO 008/1	01/2014
060.01-01	01/2014
060.01-02	01/2014
060.01-03	01/2014
060.01-04	01/2014
060.01-05	01/2014
060.01-07	01/2014
060.01-08	01/2014
060.01-09	01/2014

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