



(1) **Supplement No. 3 to
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 05 ATEX 0371X

(4) Equipment: **Gas detector sensing head type: EKP-1/N, EKP-1/NW, EKP-1/W**

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

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

(7) This supplement of certificate is valid for extension by a new variants,
types: **EKP-1/N/H₂, EKP-1/NW/H₂, EKP-1/W/H₂**


(8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, list of which is mentioned in schedule of this certificate.

(9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains another requirement, which manufacturer shall fulfill before products are place on market or introduce in service.

(10) Safety requirements of modified parts were fulfill by satisfying of following standards:


EN 60079-0:2006 EN 60079-1:2007 EN 60079-11:2007

(11) Marking of equipment designed according to this supplement shall contain symbols:

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

(12) This type examination certificate is valid till: **28. 01. 2015**

Responsible person:


Ing. Šindler Jaroslav
Head of certification body



Date of issue: **15. 06. 2011**

Number of pages: **3**
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Physical Technical Testing Institute
Ostrava-Radvanice

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Schedule

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(15) Description of Equipment:

The flameproof enclosure design, maximum input power or intrinsically safe parameters of a sensing head of flammable gas detector weren't modified.

This supplement verifies and extends the series of the sensing head of flammable gas detector with variants designed for selective measurement of hydrogen gas concentration.

Marking of the new variants:	EKP-1/N/H ₂	EKP-1/W/H ₂	EKP-1/NW/H ₂
Installed pelistor types:	PC-31xx	PC-62x	PC-31xx + PC-62x

Technical parameters:

Rated voltage: DC	1 V...1,8 V	0,8 V...1,5 V	1 V...1,8 V; 0,8 V...1,5 V
Rated current:	≤ 45 mA	≤ 40 mA	≤ 45 mA; ≤ 40 mA

Intrinsically safe parameters:

EKP-1/N/H ₂ , EKP-1/W/H ₂ terminals No. (2-3):	$U_i = 10 \text{ V}$, $I_i = 100 \text{ mA}$, $L_i = 200 \mu\text{H}$, $C_i \cong 0$
EKP-1/NW/H ₂ terminals No. (3-4), (2-3):	$U_i = 6 \text{ V}$, $I_i = 80 \text{ mA}$, $L_i = 200 \mu\text{H}$, $C_i \cong 0$
Total maximum power input of sensing head:	$P_i = 1 \text{ W}$

(16) Report No.: 05/0371-3 on 09. 06. 2011

(17) Special conditions for safe use:


17.1 The connection facility of the gas detector sensing head is designed only for connection to the intrinsically safe circuits.

17.2 The connection facility, that forms free surface of insulating compound with connection pins, must be protected by additional cover, or enclosure complying requirements for enclosure in accordance with EN 60079-0 with degree of protection IP20 at least. Insulating compound surface must be protected against light.

17.3 The verification of measuring function of apparatus is not matter of this certificate.

(18) Essential Health and Safety Requirements: They are included in standards, which are mentioned in clause (10) of this certificate supplement. The product was approved in accordance with above mentioned standards.

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(19) List of documentation:

Instruction for use No.: IO 006/1	05/2011
Approval technical report No.: 3/10/05-2, supplement No. 1	05/2011
Technological procedures No.: IT 001/2, supplement No. 1	05/2011
Drawings No.: 001.00 - 0/3	04/2011
001.00 - 3/3	04/2011
001.00 - 9/3	04/2011
001.00 - 10/3	04/2011
001.00 - 11/2	04/2011
001.00 - 12/2	04/2011
001.00 - 13/1	04/2011
002.00 - 0/3	04/2011
002.00 - 3/2	04/2011
002.00 - 7/2	04/2011
002.00 - 8/3	04/2011
002.00 - 9/2	04/2011

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