



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 05 ATEX 0363**

(4) Equipment: **Intrinsically Safe Power Supply types JBZ-02 and JBZ-02/A**

(5) Manufacturer: **Elgas, s.r.o.**

(6) Address: **Ohrazenice 211, 533 53 Pardubice, Czech Republic**

(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°

**05/0363 dated 16.12.2005**

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

**EN 50014 : 1997 +A1, A2; 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 (2)G [Ex ib] IIC**

This EC-Type Examination Certificate is valid till: **16. 12. 2010**

Responsible person:

*Šindler*

Dipl. Ing. Šindler Jaroslav

Head of certification body



Date of issue: 16.12.2005

Number of pages: 3

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**Physical Technical Testing Institute  
Ostrava-Radvanice**

(13)

**Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0363**

(15) **Description of Equipment or Protective System:**

The Intrinsically Safe Power Supply Units types JBZ-02 and JBZ-02/A are designed to supply gas volume correctors ELCOR-2 and microELCOR-2.

Electronic components of the apparatus are mounted on a printed circuit board housed in a moulded plastic enclosure. Colour-coded terminals are provided for the hazardous and non-hazardous area connections. The device is designed for installation in the safe area. The model JBZ-02/A may be supplied only from sources not derived from mains.

**Input/output parameters:**

JBZ-02 and JBZ-02/A, intrinsically safe output:

$U_o = 8,5 \text{ V}$ ;  $I_o = 48,2 \text{ mA}$ ;  $P_o = 410 \text{ mW}$

	IIC	IIB
$C_o$	1 $\mu\text{F}$	50 $\mu\text{F}$
$L_o$	200 $\mu\text{H}$	40 mH

Power supply: 10,5 – 15 V DC

$U_m = 250 \text{ V}$  (JBZ-02)

$U_m = 60 \text{ V}$  (JBZ-02/A)

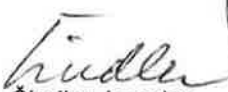
(16) Report No. : 05/0363

(17) Special conditions for safe use: -

(18) **Essential Health and Safety Requirements:**

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

Responsible person:

  
Dipl. Ing. Šindler Jaroslav  
Head of certification body



Date of issue: 16.12.2005

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(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 05 ATEX 0363**

(19)

**LIST OF DOCUMENTATION**

• **Drawings:**

KP 058  
KP 058A  
KP 058  
KP 058A  
KP 058  
KP 058  
KP 058 03  
KP 058 03A  
KP 058 03  
KP 058 03  
KP 058 03A  
DKP 058 03  
DKP 058 03  
KP 058 03-01  
KP 058 03-01  
KP 058 03-01  
DKP 058 03-01  
DKP 058 03-01  
KP 058 05  
KP 058 05A  
KP 058 07  
KP 058 07A

**Sheet:**

list 01/1  
list 01/1  
list 10/1  
list 10/1  
list 45/1-45/6  
list 46/1-46/11  
list 01/1-01/2  
list 01/1-01/2  
list 03/1  
list 10/1-10/2  
list 10/1-10/2  
list 24/1  
list 24/2  
list 01/1  
list 03/1  
list 10/1  
list 24/1  
list 24/2  
list 01/1  
list 01/1  
list 01/1  
list 01/1


**Date:**

08.12.2005  
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- Technical description, instruction manual JBZ-02 and JBZ-02/A

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Ostrava-Radvanice



**Supplement No. 1 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 0363**

(4) Equipment or protective system: **Intrinsically Safe Power Supply types JBZ-02 and JBZ-02/A**

(5) Manufacturer: **Elgas, s.r.o.**

(6) Address: **Ohrazenice 211, 533 53 Pardubice, Czech Republic**

(7) This supplement of certificate is valid for:

- application of new standards
- prolongation of certificate validity

(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 requirements, which manufacturer shall fulfil before products are place on market or introduce in service.

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

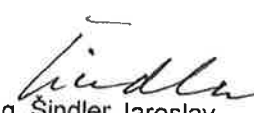
**EN 60079-0 : 2006; EN 60079-11 : 2007**

(11) Marking of equipment shall contain symbols:

 **II (2)G [Ex ib] IIC**

(12) This type examination certificate is valid till: **14. 12. 2015**

Responsible person:

  
Dipl. Ing. Šindler Jaroslav  
Head of certification body



Date of issue: 14.12.2010

Number of pages: 2  
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(13) **Schedule**

(14) **Supplement No. 1 to  
EC-Type Examination Certificate N° FTZÚ 05 ATEX 0363**

(15) Description of Equipment or Protective System:

The certified apparatus is manufactured according to the verified documentation shown in the basic certificate and in this Supplement and complies with requirements of upgraded standards listed in (10).

The validity of the certificate is prolonged till 14.12.2015.

Input/output parameters mentioned in the basic certificate remain unchanged.

(16) Report No.: 05/0363/1

(17) Special conditions for safe use: -

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (10).

(19) Documentation:

KP 058 sheets 45/1 – 45/6  
KP 058 sheets 46/1 – 46/11  
KP 058 05 sheet 01/1  
KP 058 05 A sheet 01/1  
KP 058 07 sheet 01/1  
KP 058 07 A sheet 01/1

Date:

09.12.2010

09.12.2010

09.12.2010

09.12.2010

09.12.2010

09.12.2010

Responsible person:

Date of issue: 14.12.2010

  
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