



(1) **Supplementary EU - Type Examination Certificate No.7**

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

(3) EU - Type Examination Examination Certificate number:

**FTZÚ 02 ATEX 0044X**

(4) Product: **Electrical Actuator type MO EEx 52121.xxxx (F,FF) a MO EEx 52122.xxxx (F,FF)**

(5) Manufacturer: **ZPA Pečky a.s.**

(6) Address: **tř. 5. května 166, 289 11 Pečky, Czech Republic**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 02 ATEX 0044X 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:

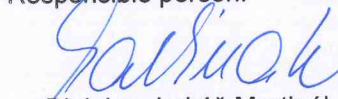
**EN 60079-0:2012+A11:2013; EN 60079-1:2014; EN 60079-7:2015; EN 60079-11:2012**

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

	<b>II 2G</b>	<b>Ex db eb IIC T4 Gb</b>	<b>-25°C ≤ Ta ≤ +55°C</b>
	<b>II 2G</b>	<b>Ex db eb IIB T4 Gb</b>	<b>-50°C ≤ Ta ≤ +55°C</b>
	<b>II 2G</b>	<b>Ex db eb IIB T4 Gb</b>	<b>-60°C ≤ Ta ≤ +55°C</b>
	<b>I M2</b>	<b>Ex db eb I Mb</b>	
	<b>I M2</b>	<b>Ex db ib I Mb</b>	

(12) The certificate is valid till: **31.10.2022**

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 31.10.2017

Page: 1/2

This certificate is granted subject to the general conditions of the FTZÚ, s.p.  
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Physical-Technical Testing Institute  
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 7  
to FTZÚ 02 ATEX 0044X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Evaluation according to the new edition of the standards: EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-7:2015 and EN 60079-11:2012.
- Prolongation of certificate validity.

Technical parameters and construction of the product remain unchanged.

(16) Report Number.: 02/0044/7

dated: 31.10.2017

(17) Specific Conditions of Use:

1. Verified values of the maximum gaps and minimum constructional length of flameproof joints of the enclosure are different from relevant minimum and maximum values mentioned in standard. To obtain information about joints dimension it is necessary to contact the manufacturer.

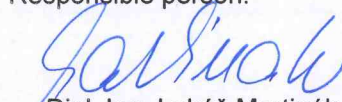
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate. Non-electric part of the equipment – mechanical gearbox is not covered by this certificate.

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
MOED EEx t.No. 52120 - 52125	--	47	2017	Manual
29050272	c	1	24.08.2017	Drawing

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 31.10.2017

Page: 2/2



## 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 02 ATEX 0044X**

(4) Equipment or protective system: **Actuating motor, type MO EEx 52121.xxxx  
and type MO EEx 52122.xxxx**

(5) Manufacturer: **ZPA Pečky a.s.**

(6) Address: **Tř. 5. května 166, 289 11 Pečky, 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°

**02/0044 dated 14 July 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**

(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 de IIC T4**

This EC-Type Examination Certificate is valid till: 31. 07. 2007

Responsible person:

*v. z. Šindler*  
Dipl. Ing. Šindler Jaroslav  
Head of certification body



Date of issue: 15.07.2002

Number of pages: 1/4

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Physical Technical Testing Institute  
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 02 ATEX 0044X**

(15) Description of Equipment:

Actuating motor, type MO EEx 52121 and MO EEx 52122 are equipment intended for remote control of fittings (valves, slide valves, etc.) by reverse rotary movement. The actuating motor consists of electric and mechanical parts. Electric parts consists of control box protected by flameproof enclosure (d), terminal box with type of protection increased safety (e) and electric motor protected by flameproof enclosure (d). The enclosures are connected via multi-conductor bushings, certified as Ex component with type of protection EEx d IIC. Inside of control box are: torque, signalling and positioning units, position transmitter and eventually heating unit. The control box is made of grey cast iron. The terminal box is made of aluminium alloy (Mg < 1 %) and it is equipped by terminal blocs with type of protection increased safety EEx e II. Two cable glands, which forms a part of enclosure (inseparable), are used for cable entry of external control and auxiliary circuits. The terminal box is not intended for connection of power circuits. The electric motor has separate terminal compartment. The mechanical part of actuating motor consists of counter gear box and power gear. The counter gears are centrally placed on output shaft and form a separate assembly. The shaft of driving flange-mounted electric motor enters to the counter gear box.

The electric motors are separately certified equipment and are protected with type of protection EEx d IIC T4.

Essential technical data:

- common for all product variant:

Control circuit: AC 250 V, 2 A, DC 250 V, 0,2 A  
Position transmitter: resistive: 100 Ω, 48 V or capacitive: 4 ÷ 20 mA, 10 ÷ 28 V  
Degree of protection: IP 65

- different for separate product variants:

Switch off torque: from 63 – 85 Nm to 160 - 250 Nm  
Output revolution: from 10 min<sup>-1</sup> to 125 min<sup>-1</sup>  
Electric motor power from 370 W to 2200 W  
Electric motor speed from 910 min<sup>-1</sup> to 2865 min<sup>-1</sup>

Variants of assembly are mentioned at page 3 of this certificate.

(16) Report No.: 02/0044 (43 pages, 7 annexes)

(17) Special conditions for safe use:

The actuating motor is designed for special range of ambient temperature: -25 °C < Ta < + 55 °C

(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 instruction for use.

Responsible person:

  
Dipl. Ing. Šindler Jaroslav  
Head of certification body



Date of issue: 15.07. 2002

Number of pages: 2/4

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Physical Technical Testing Institute  
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 02 ATEX 0044X**

(15) Description of Equipment:

Type/variant: MO EEx 52 121.	xx1x	xx2x	xx3x	xx4x	xx5x	xx6x
Switch off torque: [ N m ]	63-100	63-100	63-85	63-85	100-160	100-160
Output revolutions: [ min <sup>-1</sup> ]	25	40	63	100	16	25
Electric motor type: AVM	80 MK06	80 MK04	80 M04	90 LK04	80 MK06	80 M06
Electric motor power [ W ]	370	550	750	1100	370	550
Electric motor supply:	3 AC 400 V					

Type/variant: MO EEx 52 121.	xx7x	xx8x	xx9x	xxAx
Switch off torque: [ N m ]	100-130	100-130	100-130	100-160
Output revolutions: [ min <sup>-1</sup> ]	40	65	100	125
Electric motor type: AVM	80 M04	80 LK04	90 L04	90 L02
Electric motor power [ W ]	750	1100	1500	2200
Electric motor supply:	3 AC 400 V			

Type/variant: MO EEx 52 122.	xx0x	xx1x	xx2x	xx3x	xx4x	xx5x
Switch off torque: [ N m ]	160-250	160-250	160-210	160-210	160-210	160-250
Output revolutions: [ min <sup>-1</sup> ]	10	16	25	40	65	80
Electric motor type: AVM	80 MK06	80 M06	90 LK06	90 LK04	90 L04	90 L02
Electric motor power [ W ]	370	550	750	1100	1500	2200
Electric motor supply:	3 AC 400 V					

Responsible person:

Date of issue: 15.07. 2002

Dipl. Ing. Šindler Jaroslav  
Head of certification body

Number of pages: 3/4

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(13)

**Schedule**

(14) **EC-Type Examination Certificate N° FTZÚ 02 ATEX 0044X**

(19)

**LIST OF DOCUMENTATION**

- Approval Drawing No.: 29050272 12. 03. 2001
- Annex to the approval drawing No. 52121, 52122 14. 05. 2002
- Instruction for service and assembly 04. 06. 2002
- Technical specification No. TP 12 – 02/97 (23 pages),  
with amendment No. 4 22.11. 1996  
27. 09. 2001
- Technical description of actuating motor No. 52 121 and 52122 14. 09. 2001
- Drawing No. 23464441 14. 09. 2001