



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 10 ATEX 0113

(4) Equipment or protective system: **Mining cap lamp type T1005.01A M1 and T1005.01A**

(5) Manufacturer: **KV – Svitidla a.s.**

(6) Address: **Mostecká 141, 360 01 Otovice, 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°

10/0113 dated 08.09.2010

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

EN 60079-0 : 2006; EN 60079-11 : 2007; EN 62013-1 : 2006

(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:

 **I M1 Ex ia I T1005.01A M1**

 **I M2 Ex I T1005.01A**

This EC-Type Examination Certificate is valid till: **09. 09. 2015**

Responsible person:


Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 09. 09. 2010

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Number of pages: 4

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Physical Technical Testing Institute
Ostrava-Radvanice

(13)

Schedule

(14) **EC-Type Examination Certificate N° FTZÚ 10 ATEX 0113**

(15) Description of Equipment:

The mining cap lamp T1005.01A M1 comprises a battery container, a cover, a connection cord cable and a head-lamp part. Five NiMH cells (type HHR 450AB), a limiting resistor, two fuses 1 A and a control electronics are housed inside a battery container. The printed circuit board with two power and two indication LEDs and a switch are installed inside reflector housing.

The mining cap lamps T1005.01 A does not any protecting resistor and the encapsulation is made with a foam encapsulant.

$T_a = -5^{\circ}\text{C}$ to $+40^{\circ}\text{C}$

(16) Report No. : 10/0113 (53 pages)

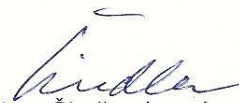
(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements:

They are included in standards, which are mentioned in clause (9) of this certificate and in manufacturer's instruction for use.

Responsible person:

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- (13) Schedule
(14) EC-Type Examination Certificate N° FTZÚ 10 ATEX 0113

(19) LIST OF DOCUMENTATION

1. Instruction for use (8 pages)	01.01.2010
2. Technical description (4 pages)	01.01.2010
3. Drawings No.:	24.02.2010
4-1005.01A	04.01.2010
3014 19	07.08.2009
3060 15	04.01.2010
3060 17	09.03.2010
3089 142	18.01.2010
3080 154	05.01.2010
3107 45	24.08.2009
3119 05	15.10.2005
3136 02	12.04.2010
3138 07	05.09.2004
4016 13	05.09.2004
4016 14	05.01.2010
4016 31	05.01.2010
4016 32	30.08.2006
4019 08	04.01.2010
4047 34	20.09.2004
4086 05	20.09.2004
4086 06	29.08.2004
4089 64	05.09.2004
4089 65	08.01.2010
4089 149	08.01.2010
4089 150	19.01.2010
4089 151	05.01.2010
4089 152	14.01.2010
4089 153	09.02.2010
4089 155	09.02.2010
4089 156	09.02.2010
4089 157	11.03.2010
4089 158	

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- (13) **Schedule**
(14) **EC-Type Examination Certificate N° FTZÚ 10 ATEX 0113**

(19) **LIST OF DOCUMENTATION**

3.	Drawings No.:	4114 02	21.07.2008
		4094 01	30.09.2009
		4107 25	27.07.2010
		4107 26	06.09.2004
		4107 46	30.03.2010
		4107 47	30.03.2010
		4115 02	20.09.2004
		4125 03	03.01.2010
		4127 01	29.08.2010
		4129 04	06.09.2004
		4129 05	20.09.2004
		4129 10	07.09.2004
		4129 17	28.09.2009
		4144 08	04.08.2008
		4146 12	08.03.2010
		4146 18	08.07.2010
		4-SA2 M1	08.07.2010
		SA2	31.07.2008
		Ex 02641-50-001 SCH	14.06.2010
		Ex 02641-50-001 HK	14.06.2010
		Ex 02641-50-001 DK	14.06.2010
		Ex 02641-50-001 HP	14.06.2010
		Ex 02641-50-001 HO	14.06.2010
		Ex 02641-50-001 DP	14.06.2010
		Ex 02641-50-001 DO	14.06.2010
		P.5xHHR 450 AB_KV5JST_M1	12.07.2010
4.	Data sheets:	1005.01A (10 pages)	01.10.2009
		EPS 23. D32 (2 pages)	14.06.2010

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