



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 07 ATEX 0223X

(4) Equipment or protective system: **Earthing block EGT-t**

(5) Manufacturer: **Elok Opava spol. s r.o.**

(6) Address: **Sádek 17, 747 75 Velké Heraltice , 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°

07/0223 dated October 2008

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

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

(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 Ex d [ib] IIB T4**

This EC-Type Examination Certificate is valid till: **31.10.2013**

Responsible person:

Dipl. Ing. Šindler Jaroslav
Head of certification body



Date of issue: 20 of October 2008

Number of pages: 5
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Physical Technical Testing Institute
Ostrava-Radvanice

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Schedule

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(15) Description of Equipment or Protective System:

The EGT –t earthing block is designed for safe pumping of fuels into tank trucks or railway tanks in areas with hazardous or flammable gases. The electronic circuits of the earthing block are installed in a flameproof housing designed as an aluminium alloy casting. The circuit of the clamp is designed as intrinsically safe. The cover with two or four sights is fixed with six hexagon screw set, placed in protecting shrouds. Certified flameproof cable glands are used for input of supply cable, operating cable and output cable to the clamp.

Maximum cable length of cable to earthing anchor is 20 m.

The earthing block monitors three connection states of earthing clamps:

- The tank is not connected or the condition that impedance is $< 3000 \Omega$ – red indicator light;
- The clamp are directly connected to the earthing point of the object- red indicator light;
- The tank is connected, the impedance of the system is between $50 \Omega - 3000 \Omega$ – green indicator light or blink;
- The clamps are directly connected to the earthing point of the object after previous connection to the tank-green indicator light.

Technical specification:

Voltage. 230V / 50Hz

Power: 10 VA

(16) Report No.: 07/0223

(17) Special conditions for safe use:

17.1 Tamb: -50°C to $+60^{\circ}\text{C}$

(18) Essential Health and Safety Requirements:

Covered by standards mentioned in (9) of this certificate.

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LIST OF DOCUMENTATION

➤ User's manual No.....	EGT-t	01034-00-001,NKO	1/K	08.10.2008
➤ Drawings No:.....	EGT 4	Ex11034-00-Y01	1/B	08.10.2008
.....	EGT 4	Ex11034-00-Y01	3/A	01.07.2008
.....	EGT 4.A	Ex11034-00-A11X	5/A	01.07.2008
.....	EGT 4.C	Ex11034-00-C11X	5/A	01.07.2008
.....	EGT 4.A1	Ex11034-00-A61	1/B	08.10.2008
.....	EGT 4.C1	Ex11034-00-C61	1/C	08.10.2008
.....	EGT 4.1	Ex11034-00-001	1/B	22.07.2008
.....	EGT 4.1	Ex11034-00-001	3/D	01.07.2008
.....	ELPZ 4.2	Ex01653-00-002	B	12.08.2008
.....	ELPZ 4.2	Ex01653-00-002	2/L	15.08.2008
.....	ELPZ 3.2	Ex01652-00-120	A	25.07.2008
.....	ELPZ 3.2	Ex01652-00-120X	3/D	01.07.2008
.....	ELPZ 4.2	Ex01653-00-121	B	11.08.2008
.....	ELPZ 4.2	Ex01653-00-121X	5/C	01.07.2008
.....	UZCL 3.d	Ex01032-02-02X	1/H	15.08.2008
.....	UZCL 3.d	Ex01032-02-021	1/E	07.12.2007
.....	UZCL 3.d	Ex01032-02-022	1/E	07.12.2007
.....	UZCL 3.d	Ex01032-02-023	1/F	07.12.2007
.....	UZCL 3.d	Ex01032-11-001	1/D	15.08.2008
.....	UZCL 3.d	Ex01032-11-001	1/E	07.12.2007
.....	UZCL 3.d	Ex01032-00-032	1/D	20.05.2008
.....	ELPZ 4	Ex01653-00-022	1/H	14.01.2008
.....	ELPZ 4	Ex01653-00-022	1/F	15.08.2008
.....	EGT 6	Ex11036-00-Y01	1/B	08.10.2008
.....	EGT 6	Ex11036-00-Y01	1/B	04.09.2008
.....	EGT 6.A	Ex11036-00-A11X	3/A	04.09.2008
.....	EGT 6.C	Ex11036-00-C11X	4/B	04.09.2008
.....	EGT 6.A1	Ex11036-00-A61	1/C	08.10.2008
.....	EGT 6.C1	Ex11036-00-C61	1/C	08.10.2008

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➤ Drawings No.:.....	EGT 6.1	Ex11036-00-001	1/B	22.07.2008
.....	EGT 6.1	Ex11036-00-001	1/B	22.07.2008
.....	EGT 6.1	Ex11036-00-001	2/B	04.09.2008
.....	ELPZ 6.2	Ex01655-00-002	B	11.08.2008
.....	ELPZ 6.2	Ex01655-00-002	1/J	15.08.2008
.....	ELPZ 5.2	Ex01654-00-120	A	25.07.2008
.....	ELPZ 5.2	Ex01654-00-120X	2/C	15.08.2008
.....	ELPZ 6.2	Ex01655-00-121	D	11.08.2008
.....	ELPZ 6.2	Ex01655-00-121X	3/C	15.08.2008
.....	UZCL 5.d	Ex01035-12-001X	1/A	04.09.2008
.....	UZCL 5.d	Ex01035-13-001X	1/A	04.09.2008
.....	UZCL 5.d	Ex01035-14-001X	1/A	04.09.2008
.....	UZCL 5.d	Ex01035-16-001X	1/A	04.09.2008
.....	UZCL 3.d	Ex01035-02-02X	1/F	03.09.2008
.....	UZCL 3.d	Ex01035-02-021	1/B	07.12.2007
.....	UZCL 3.d	Ex01035-02-022	1/B	07.12.2007
.....	UZCL 3.d	Ex01035-02-023	1/B	07.12.2007
.....	UZCL 3.d	Ex01035-11-001	1/C	03.09.2008
.....	UZCL 3.d	Ex01035-11-001	1/C	07.12.2007
.....	UZCL 5.E	Ex01035-50-001,SCH	8/A	18.05.2006
.....	UZCL 5.E	Ex01035-50-001,DK	8/A	18.05.2006
.....	UZCL 5.E	Ex01035-50-001,HK	8/A	18.05.2006
.....	UZCL 5.E	Ex01035-50-001,HO	8/A	18.05.2006
.....	UZCL 5.E	Ex01035-50-001,HP	8/A	18.05.2006
.....	UZCL 5.E	Ex01035-50-001	1/C	08.09.2006

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➤ Drawings No:.....	UZCL 5.Z1	Ex01035-51-001,SCH	10/A	14.01.2008
.....	UZCL 5.Z1	Ex01035-51-001,DK	10/A	14.01.2008
.....	UZCL 5.Z1	Ex01035-51-001,HK	10/A	14.01.2008
.....	UZCL 5.Z1	Ex01035-51-001,HO	10/A	14.01.2008
.....	UZCL 5.Z1	Ex01035-51-001,DO	10/A	14.01.2008
.....	UZCL 5.Z1	Ex01035-51-001,HP	10/A	14.01.2008
.....	UZCL 5.Z1	Ex01035-51-001,DP	10/A	14.01.2008
.....	UZCL 5.Z1.D32	Ex01035-51-001	10/A	14.01.2008
	UZCL 5.Z2	Ex01035-52-001,SCH	5/A	18.05.2006
	UZCL 5.Z2	Ex01035-52-001,DK	5/A	18.05.2006
	UZCL 5.Z2	Ex01035-52-001,HK	5/A	18.05.2006
	UZCL 5.Z2	Ex01035-52-001,HO	5/A	18.05.2006
	UZCL 5.Z2	Ex01035-52-001,DO	5/A	18.05.2006
	UZCL 5.Z2	Ex01035-52-001,HP	5/A	18.05.2006
	UZCL 5.Z2	Ex01035-52-001,DP	5/A	18.05.2006
	UZCL 5.Z2.D32	Ex01035-52-001	5/A	14.01.2008

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