



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx FTZU 15.0005X Issue No: 0 Certificate history:  
Issue No. 0 (2015-03-30)

Status: **Current** Page 1 of 3

Date of Issue: **2015-03-30**

Applicant: **Elok – Opava spol s r.o.**  
Sádek 17  
747 75 Velké Heraltice  
Czech Republic

Electrical Apparatus: **Earthing block EGT-t**  
*Optional accessory:*

Type of Protection: **Flameproof enclosure "d", Intrinsic safety "i", dust protection by enclosure "t"**

Marking:  
Ex d ib [ib] IIB T4 Gb  
Ex ib [ib] tb IIIC T130°C Db

Approved for issue on behalf of the IECEx  
Certification Body:


Dipl. Ing. Lukáš Martinák

Position:

Head of the Certification Body

Signature:  
(for printed version)

Date:

  
2015-03-30



1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Fyzikálně technický zkušební ústav  
(Physical -Technical Testing Institute)  
Pikartská 7  
71607 Ostrava - Radvanice  
Czech Republic





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Date of Issue: 2015-03-30 Page 2 of 3  
Manufacturer: Elok – Opava spol s r.o.  
Sádek 17  
747 75 Velké Heraltice  
Czech Republic

Additional Manufacturing  
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2008</b> Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

#### Test Report:

CZ/FTZU/ExTR15.0005/00

#### Quality Assessment Report:

CZ/FTZU/QAR07.0002/02





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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The EGT –t earthing block is designed for safe pumping of fuels into tank trucks or railway tanks in areas with hazardous of flammable gases and dust ignition. 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. The equipment is equipped by cable with connector for easy connection of earth cable with clamp. For ambient temperature  $-55^{\circ}\text{C}$  shall be used a cable type Arctic. 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.

Marking: - Ex „ib” – earth cabel with clamp,

- Ex „[ib]”- associated apparatus inside of enclosure

Into flameproof enclosure are placed two PCB's. Control PCB include supply terminal, IS relays input terminal, IS terminal for connection of earth clamps. There are also non IS circuits of Power supply and relays control. Displaying PCB include only non IS circuits.

### CONDITIONS OF CERTIFICATION: YES as shown below:

1. Ambient temperature Tamb.:  $-55^{\circ}\text{C}$  až  $+60^{\circ}\text{C}$
2. The basic values for maximum constructional gaps are different from the maximum values shown in Table 1 and table 2 EN 60079-1. The values are specified in the approval documents .

