

# GROUNDING CONTROL DEVICE EKX-4 LT

## THE EAC EX APPROVED LOW TEMPERATURE VERSION

The Grounding Control Device EKX-4 LT is the specialized **cold-proof version** of the standard EKX-4 device suitable for use in extremely **low ambient temperature** (e.g. in Siberia). An additional housing with a **self-regulating** heating combined with our special cold-resistant grounding cable allows utilization in a temperature range from **+ 50 °C down to - 55 °C**.

### FUNCTIONAL PRINCIPLE

EKX-4 LT ensures that **static electricity is discharged to the ground by a grounding cable and continuously monitors grounding quality**. Only if the connected tank vehicle is detected and grounded properly, the filling release will be signaled by clearly visible green LEDs and control outputs. If there are any breaks in the grounding connection, the LEDs will change to red and filling will be interrupted immediately.

### APPLICATION AREAS

EKX-4 is mounted stationary **at the loading site**. It is suitable for operation in gas and dust hazardous areas of **zone 1 and 21** – mainly in the petrochemical and chemical industry. EKX-4 LT has been developed in accordance with the technical regulation **TR CU 012/2011** of the **Eurasian Customs Union** (EAC Ex approval).

### PRODUCT BENEFITS

- **Prevents manipulation** due to object recognition (by measuring the impedance)
- Automatic diagnosis system **self-monitors** all safety-related functions **continuously**
- Possibility to **connect longer cables** (up to 30 m) due to cable compensation
- **Simple device configuration** (e.g. “road tank truck“, “railway tank wagon“)
- **Opening the housing** under voltage is permissible – thanks to intelligent explosion protection (IEPC)



**HIGHEST LEVEL OF SAFETY**  
in hazardous areas

**LEADING TECHNOLOGY**  
in monitoring, diagnostics, and configuration

**EASY TO OPERATE**  
by ability to open housing in hazardous areas



# EKX-4 LT



## TECHNICAL SPECIFICATIONS

### Type of protection:

according to TR-CU 012/2011:

1Ex e q [ib] IIC T4 Gb X

Ex tb [ib Db] IIIC T80°C Db X

### Power supply:

230 V AC  $\pm$  10 %, 50-60 Hz, about 75 VA

### Control outputs:

2 potential-free closing contacts

1 change-over contact | 1 NAMUR-output

**Operating temperature:** - 55 °C up to + 50 °C

**Approval:** TR-CU 012/2011

## ACCESSORIES\*

### CLAMP AND CABLE



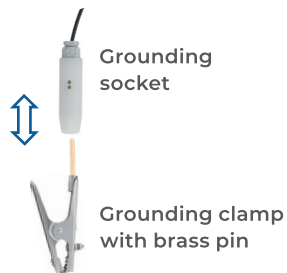
Grounding clamp



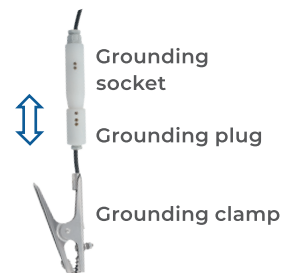
Low temperature grounding cable  
up to 30 m

### CLAMPS

Breakaway coupling - option 1



Breakaway coupling - option 2



### OTHER ACCESSORIES



Testing equipment



Clamp hanger

\*For further information and additional accessories, visit us at [www.timm-technology.com](http://www.timm-technology.com) or contact us in person.



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