

Grounding Control Device EKX-4



Physical Effect

During loading and unloading of **tank trucks**, **silo trucks**, **railway tank wagons** as well as containers and similar vessels with inflammable liquids or other goods **explosive gas and dust atmospheres** may arise. A single spark can be sufficient to initiate an explosion. To prevent this danger effectively, the occurring electrostatic charge must be **dissipated safely**.

Highest Level of Safety according to EN 61508 / SIL 2

The Grounding Control Device EKX-4 is approved for use in gas and dust hazardous areas of **zone 1** (device category **II 2 G**) and **21 (II 2 D)**. It ensures the static electricity is dissipated to the ground by a grounding cable and **monitors** the quality of this grounding **continuously**. A filling release is only signaled by clearly visible green LEDs, if the **impedance** of the tank truck is within the permitted range. This **automatic object detection** prevents manipulations. If there are any breaks in the grounding connection the LEDs change to red and the filling will be interrupted immediately.

Simple Operation & Configuration

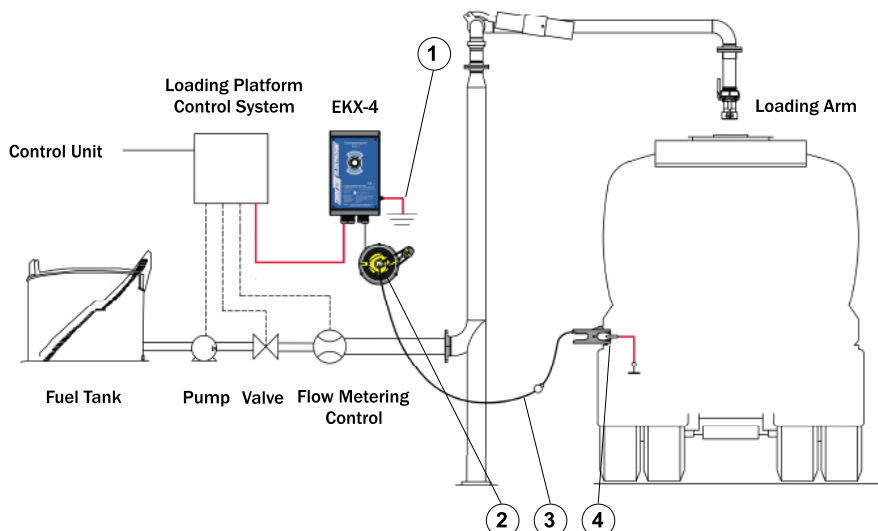
The EKX-4 can easily be configured for **different operating modes** (e.g. "tank trucks", "railway tank wagons") by internal switches. This configuration is possible during operation in hazardous areas (zone 1). An integrated **automatic diagnosis function** signals errors conditions via the multi-colour LEDs. Measured values can also be displayed on the internal LEDs. Because of the **cable compensation measurement** grounding cables with a length up to 30 meters can be attached.

Wide Range of Application

The Grounding Control Device EKX-4 has been developed to the latest state of standards in accordance with the European ATEX Directive **2014/34/EU (ATEX)**. It is not only suitable for top loading used on tank farms and refineries, but also for **other types of filling** e.g. in the **chemical and food industries**. Please contact us for further information!



Coiled cable with grounding clamp



1. Grounding connection of the device
2. Cable reel (up to 10 m cable length)
3. Grounding cable with clamp
4. Grounding pin at tank truck