

GROUNDING CONTROL DEVICE EKX-FIBC*

SAFE GROUNDING OF FLEXIBLE INTERMEDIATE BULK CONTAINERS (FIBC)

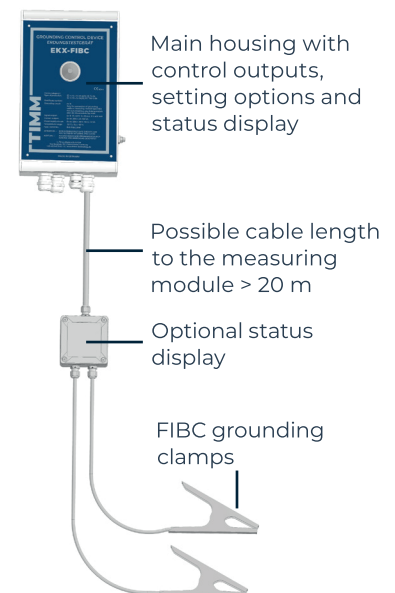
In industrial filling processes, **flexible bulk containers (FIBC)** are frequently used. Typically, in these processes particulate materials are handled which can cause hazardous atmospheres. **Electrostatic charges** must be dissipated safely to prevent explosions from energy discharges. For this application, TIMM is developing the new **Grounding Control Device EKX-FIBC**.

FUNCTIONAL PRINCIPLE

EKX-FIBC is mounted stationary at **filling and unloading stations for bulk materials**. It safely dissipates the static charge during the filling process via two special grounding clamps directly connected to the FIBC (**unique 2-clamp measuring principle**). Permanent monitoring ensures that the maximum resistance values in the **discharge connection** are not exceeded. Filling release is only provided if a FIBC is connected and grounded properly. In case of safety risks, the device interrupts the filling process immediately via the control outputs. The EKX-FIBC also signals the unsafe condition by a **LED** that **can be seen from afar**.

PRELIMINARY SPECIFICATION

- Safe discharge of static electricity according to **TRGS 727** and **relevant standards** for explosion protection
- Reliable detection of FIBC Type C through **advanced measuring technology** (unique 2-clamp measuring principle)
- **Permanent limit monitoring** of electrostatic discharge and object detection
- **Status display** on the device and optionally on the measuring module
- Relais and NAMUR **control outputs**
- Various **diagnostic and setting options, diagnostic memory** and optional data interface
- For all FIBC Type C according to **IEC 61340-4-4** ($10^7 \Omega$ and $10^8 \Omega$)



*Preliminary information as the EKX-FIBC grounding control device is currently under development. The launch is scheduled for **July 2019**.