



Safety is for life.™

PRODUCT INFORMATION



FARADO® II / FARADO® II FIBC FOR USE WITH MOBILE TANKS AND TRUCKS

Applications

The self-monitoring FARADO® II grounding system was developed for grounding when filling or emptying mobile containers such as tank trucks, IBCs, FIBCs, drums, etc., and it is used in the chemical, food, pharmaceutical, cosmetics, oil and gas as well as wood industries.

Mechanism

Electrostatic charges can build up as a result of the friction when flammable liquids, gases or solids are being loaded. The resulting electrostatic discharges (sparks) can be a risky ignition source for explosive atmospheres under the appropriate conditions. The FARADO® II. continuously dissipates the electrostatic potentials to prevent these discharges.

The grounding clamp is connected up to the object that has to be grounded. When the FARADO® II detects the grounded tank, the pumps, valves or mechanical conveyors connected to the grounding relay will be activated for the filling process. The connection between the clamp and the object is permanently monitored. If a fault occurs or if the clamp's connection becomes disconnected, then the grounding relay will generate a corresponding signal and the filling process will be stopped.

The FARADO® II also monitors the capacitance of the connected object as well as the connection's resistance. No activation will be given if they do not exceed the preset limit values. Insufficient capacitance means that the grounding clamp is not connected to the specific object, but is possibly connected to a smaller or already grounded object.

This process ensures tamper-proof use of the grounding system.



ATEX 1019X

SIL-equivalent SIL 2

You can find detailed information and contact details for enquiries relating to FARADO® II / FARADO® II FIBC at www.rembe.de. Or just give us a call on: T +49 2961 7405-0, info@rembe.de.





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Extended communication options

If an RS485 interface (ModBus protocol) is used, the data from previous grounding processes can be sent out and checked in order to identify incorrect system operation and to eliminate it through optimisation measures. Product-specific software is included in the package for this purpose.

Your advantages

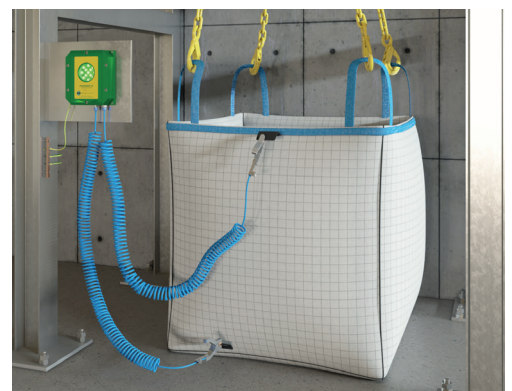
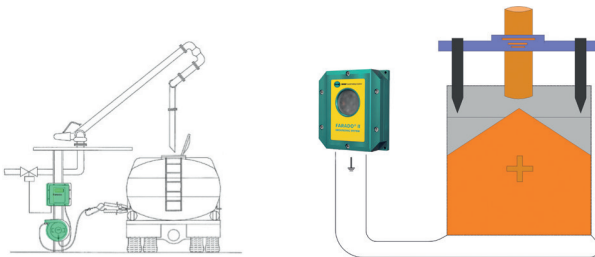
- Easy on-site installation thanks to its **compact design**.
- The connected objects capacitance check ensures that the system is **tamper-proof**.
- Approved for use in **explosive areas zones 1 and 21**.
- Integrated signalling **for reliable monitoring**.
- Settings can be adjusted via an RFID chip.
- Remote maintenance and setting up options via a PC.

Applications

Tank grounding – Fitting it to the loading station – 230 V mode	✓
Tank grounding – Fitting it to the vehicle – 24 V mode	✓
Barrel grounding	✓
IBC grounding	✓
FIBC grounding	✓

Technical data

Temperature	-40 °C up to +65 °C
Ambient temperature	-40 °C up to +55 °C
Process	Filling and emptying containers
Type	FARADO® II
Dimensions (W x H x D)	200 x 220 x 60 mm
Protection rating	IP66
Housing material	Aluminium
Weight	5 kg
Supply voltage	AC Version: 115/230 V~ (-15 ÷ +10%) 50 - 60 Hz DC Version: 10 ÷ 30 VDC
Power Consumption	3W
Interfaces	Potential-free contact, RS485
ATEX category	II 2 (1) GD Ex db [ia Ga] IIB T6 Gb Ex tb [ia Da] IIIC T85°C Db
Remote maintenance option	Yes



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