



Safety is for life.™

## PRODUCT INFORMATION

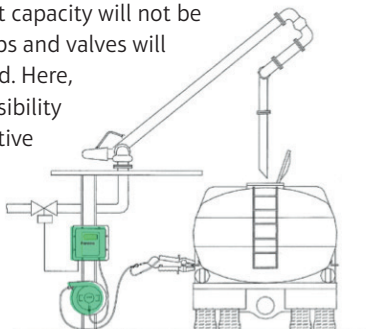


## FARADO® I FOR USE WITH MOBILE TANKS AND TRUCKS

The self-monitoring grounding system FARADO® I has been developed for the grounding during the filling and emptying of mobile tanks and trucks. The grounding clamp SRC-2 is connected to the object to be grounded. The FARADO® I checks the contact of the grounding clamp through a capacitance measurement.

If the FARADO® I detects the grounded truck, the pumps, valves or mechanical conveyors connected to the ground relay are activated for the filling process. The connection between the clamp and the object is permanently monitored.

If the clamp fails or falls off, the grounding relay will output a corresponding signal and the filling process will be interrupted. Under special weather conditions, such as wet conditions, it is possible that the preset capacity will not be reached. Connected pumps and valves will then no longer be enabled. Here, FARADO I® offers the possibility to switch from the capacitive to the resistive mode. The resistive mode will then check whether a grounding connection has been established.



### Product overview & optional accessories FARADO® I

Short name	Description
100-30-K	FARADO® I with 5 m cable + clamp SRC-2
100-30-R	FARADO® I with 10 m cable reel + clamp SRC-2
100-35-1	Cable reel CR-1 (10 m) with grounding clamp SRC-2
100-37-1	Grounding clamp SRC-2 bipolar
100-36-1	Isolated clamp parking location
100-38-1	Electronic key for calibration and bypass
100-38-2	Replacement metal cable gland made of EEx-d ½" NPT; Cable diameter 7-10 mm
100-38-3	Metal screw cap EEX-d ½" NPT
100-35-4	Electronic board for FARADO® I



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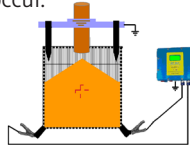
# FARADO® I FOR USE ON BIG BAGS, TYPE C

The self-monitoring grounding system FARADO® I FIBC has been specially developed for the grounding during the filling and emptying of flexible bulk material containers named Big Bags, type C.

For an effective grounding, two FIBC grounding clamps are attached diagonally to the grounding straps of the Big Bag.

The FARADO® I FIBC detects whether the Big Bag is grounded through to the resistance. When properly grounded, the potential-free contact is used to enable the filling. If there is no proper grounding, this release will not occur.

The FARADO® I FIBC also has a manipulation monitoring system that reliably detects a short-circuiting of the two clamps.



### Product overview & optional accessories FARADO® I FIBC

Short name	Description
100-30-FIBC	FARADO® I FIBC Set with 2x FIBC Clamp FC-43 and 2x 5 m single-core Hytrel spiral cable
HS-09	3 m single-core Hytrel spiral cable
HS-03	5 m single-core Hytrel spiral cable
HS-06	10m single-core Hytrel spiral cable
FC-43	Grounding clamp single pole for Big Bags, type C
100-36-1	Isolated clamp parking location
100-38-2	Replacement metal cable gland EEx-d ½" NPT; Cable diameter 7-10 mm
100-38-3	Metal screw cap EEX-d ½" NPT
100-38-5	Electronic circuit board for FARADO® I FIBC

### Technical data\*

#### FARADO® I and FARADO® I FIBC

Certification	ATEX Directive 2014/34/EU INERIS03 ATEX0073
Operating temperature	-40 °C – +55 °C
Storage temperature	-40 °C – +65 °C
Moisture	5 – 95%
Housing	Anodized aluminium, tempered glass
Protection class	Gas Dust Exd [ia Ga] IIB T6 Gb Ex-tb [ia Da] IIIC T85°C Db IP66
Leak-tightness	IP66
Dimensions (W x H x D)	ca. 277 x 265 x 55 mm
Weight	7 kg
FARADO® I Connections	3 connections ½" 7/1 NPT for power supply and 2 relay contacts
Power supply	115/230 VAC adjustable
Consumption	10 VA
Output	To clamp intrinsically safe (ia) with separate connection block
Display	Red/green highly visible LED matrix
Calibration and bypass	From the outside with an electronic key

\*Our specialists will gladly consult you personally in case of deviating operating conditions.

## YOUR ADVANTAGES

- Modern design – space-saving housing
- Tamper-proof thanks to electronic control key
- Clear LED status message
- Explosion-proof grounding clamps made of non-sparking die-cast aluminium
- Smooth running and robust cable reel for easy handling
- Intuitive operability even by authorised third-party personnel