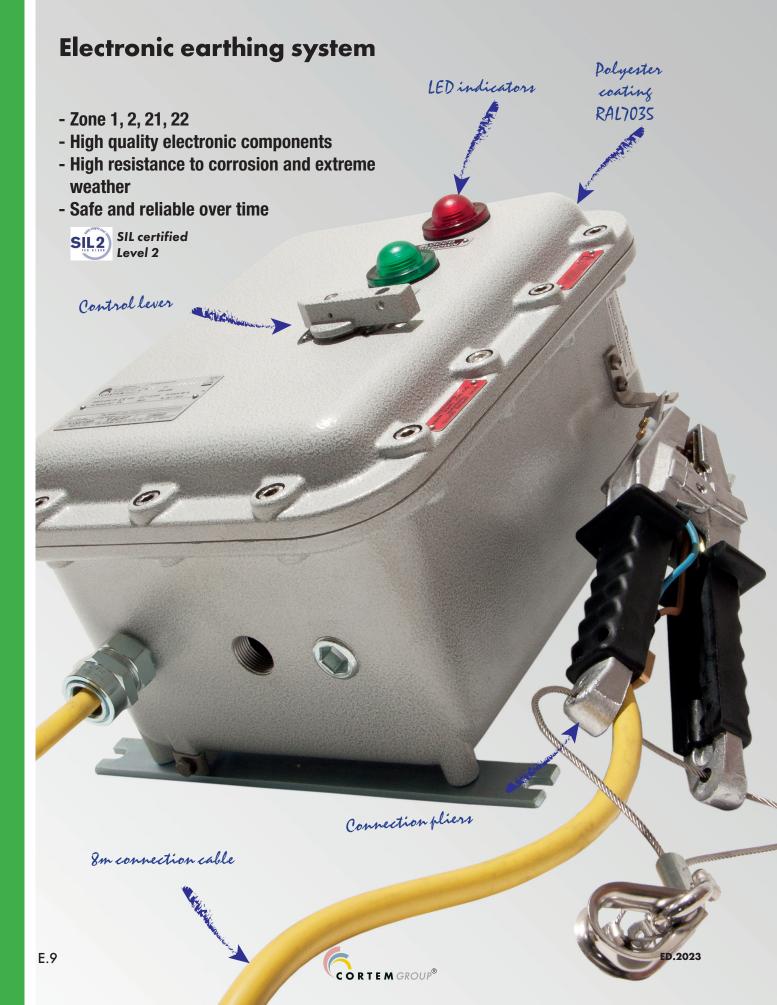
GRD-4200



GRD-4200 Electronic earthing system

The GRD-4200 series electronic earthing system ensures grounding of tankers and tank trucks during the transfer of flammable liquids, preventing the formation of electrostatic charges.

During the entire loading and unloading phase, the device checks that the equipotentiality of the earthing system is maintained.

In fact, the electronic system is equipped with a protection circuit that checks the resistance value and compares it to the set parameter and, if this value falls within the preset range, closes the electrical circuit between the two systems that are equipotential. Vice versa, it removes the operating consent from the loading pump and closes the loading valve.

The GRD-4200 electronic earthing system has obtained SIL (Safety Integrity Level) Level 2 certification in compliance with IEC-61508 and EN-50495 standards, which guarantees that the system is able to perform its safety function.

Cortem Group applies a tamper-evident holographic security label to its products, complete with a unique authentication numeric code, to combat the illegal sale of imitations and counterfeits, as well as guarantee the authenticity of its products. Failure to observe international standards creates serious risks for the environment and, above all, for the personnel who work with the systems on a daily basis.



Sectors of application:

















Petroleum refineries

Chemical and petrochemical facilities

facilities

Offshore facilities

Petroleum load-Agribusiness Fuel storage ing/unloading facilities pontoons

facilities

produced by Cortem

CERTIFICATION DATA

Classification:	Group II	Category 2GD		
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)		
Marking:	C € 0722 € II 2(1) G - Ex d [ia Ga] ia IIB+H ₂ T6 Gb			
	C€ 0722 ᠍ II 2(1) D - Ex tb [ia Da] ia IIIC T85°C Db			
Certificate:	ATEX CESI 04 ATEX 12	9		
	IEC Ex IECEx CES 14.00		certification data, download the from www.cortemgroup.com	
Standards:	CENELEC EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-11: 2012, EN 60079-31:2009 and the European Directive 2014/34/UE. IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-11: 2011, IEC 60079-31: 2008 RoHS Directive 2002/95/EC.			
Temperature class:	85°C (T6)			
Ambient Temperature:	-20°C +55°C 🎾			
Degree of protection:	IP66			

GRD-4200 Electronic earthing system



MECHANICAL FEATURES

Body and lid: Low copper content aluminium alloy

Gasket: Acid, hydrocarbon and high temperature resistant silicone positioned between the body and the lid

Certificate label: Riveted aluminium on lid

Screws, bolts and nuts: Stainless steel

Earthing screw: Stainless steel M6. Inside and outside the body and on the lid, complete with anti-rotation brackets

Fastening brackets: Electrolytically galvanized steel

Lever on lid: In coated aluminium

Warning lights: Impact and UV resistant polycarbonate
Coating: Polyester RAL 7035 (Light grey)

Resistenza alla corrosione:

The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-

2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test)

Inputs: 2 threaded holes 3/4" NPT. Complete with a PLG2N plug
Cable gland: For non-armored cable, internally sealed, thread 3/4" NPT

Cable: Yellow with trim in rubber resistant to oil and chemical substances. Suitable for extremely high mechanical

stresses. Length 8 m.

Plier: Bipolar, casting with aluminium with handles in neoprene, jaws with steel tips, auto-releasing. 16 mm opening.

Bracket for plier: In stainless steel.

ELECTRICAL FEATURES

Rated voltage: 230 Vac o 110 Vac o 24 Vac dc max. 50/60 Hz

GRD-4200				
Status:	Block	Consent		
Current draw:	12 mA	24 mA		
Power:	1.64 W	4.32 W		
Power factor:	0.57	0.82		

GRD-4200/110				
Status:	Block	Consent		
Current draw:	22 mA	45 mA		
Power:	1.52 W	4.18 W		
Power factor:	0.62	0.84		

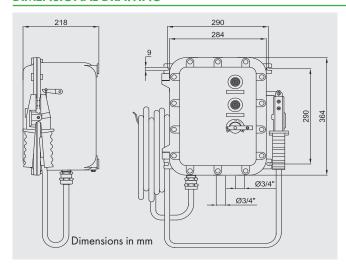
GRD-4200/24				
Status:	Block		Consent	
Voltage:	24 Vac	24 Vdc	24 Vac	24 Vdc
Current draw:	64 mA	24 mA	64 mA	24 mA
Power:	1.64 W	4.32 W	1.64 W	4.32 W
Power factor:	0.57	0.82	0.57	0.82

ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

Cable gland Pliers PMT-B2

GRD-4200 Electronic earthing system

DIMENSIONAL DRAWING



Detail of connection pliers





SELECTION TABLE

Code	Power supply	Rated frequency	Weight Kg
GRD-4200	230 Vac	50 - 60 Hz	20
GRD-4200/110	110 Vac	50 - 60 Hz	20
GRD-4200/24	24 Vac dc	0 / 50 - 60 Hz	20

ELECTRICAL WIRING

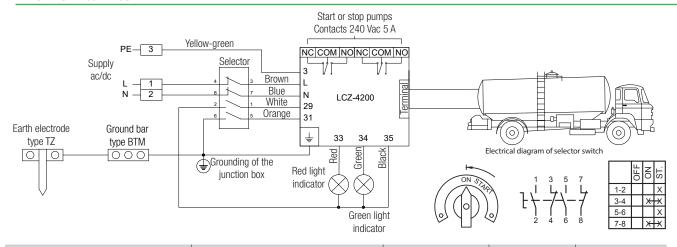


ILLUSTRATION	DESCRIPTION	MODEL	CODE	LEGEND
	Special switch	GRD	SEA10X2/12EZ16R	SICAMBIO
		GRD-4200	LCZ-4200	REAMSO
	Monitoring logic	GRD-4200/110	LCZ-4200/110	
		GRD-4200/24	LCZ-4200/24	
	Earthing pliers	GRD	PZCC-4209	RICAMBIC
	Yellow cable Length: 8 metres	GRD	NSSHOU-02X2,5	RICAMBIC
	Barrier cable gland	GRD	NAVB2NB	RICAMBIO