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.

Manufacturer 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

ing/unloading facilities pontoons

Petroleum load-Agribusiness Fuel storage facilities

CERTIFICATION DATA

Category 2GD Group II Classification: zone 21 - zone 22 (Dust) Installation: EN 60079.14 zone 1 - zone 2 (Gas) Marking: C€ 0722 ⟨ Il 2(1) G - Ex d [ia Ga] ia IIB T6 Gb **C**€ 0722 **(Ex) II 2(1) D** - **Ex** tb [ia Da] ia IIIC T85°C Db **ATEX CESI 04 ATEX 129 Certificate: IEC Ex** IECEx CES 14.0035X certificate from www.cortemgroup.com CENELEC EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-11: 2012, EN 60079-31:2009 and the European Directive 2014/34/UE. Standards: IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-11: 2011, IEC 60079-31: 2008 RoHS Directive 2002/95/EC. 85°C (T6) Temperature class: -20°C +55°C Ambient Temperature: IP66 Degree of protection:

A QR reader is required to access the information contained in the QRCode. Centre the QR code in the frame of your Smartphone camera.

Your Smartphone will open the corresponding address.



ATEX Certificate



IECEx Certificate



Use and maintenance instructions





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. 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

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

Resistenza alla corrosione: The STANDARD of the aluminium alloy used by manufacturer has passed the tests required by

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

Inputs: 2 3/4" fittings. Complete with a PLG2G plug

Cable gland: For non-armored cable, internally sealed, thread Ø 3/4" ISO7/1

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

mechanical stresses. Length 8 m.

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

opening.

Bracket for pliers: In stainless steel.

ELECTRICAL FEATURES

Rated voltage: 230 Vca o 110 Vac o 24 Vac dc

Rated frequency: 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	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		

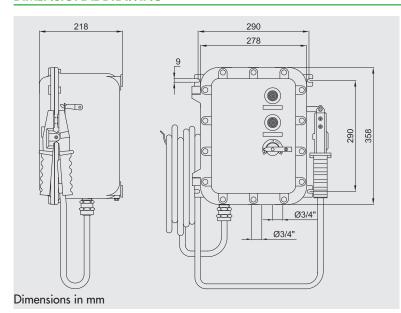
GRD-4200/24				
Status:	Block		Consent	
Voltage:	24 Vac	24 Vdc	24 Vac	24 Vdc
Current draw:	64 mA	24 mA	64 mA	24 mA
Power:	1.64 W	4.32 W	1.64 W	4.32 W
Power factor:	0.57	0.82	0.57	0.82

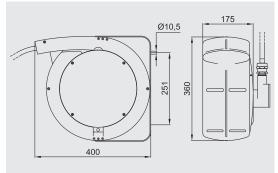
ACCESSORIES UPON REQUEST / SPECIAL REQUESTS

Cable gland Cable reel Pliers PMT-B2



DIMENSIONAL DRAWING





The cable reel is a suitable accessory for the GRD-4200 earthing system.

The cable reel in reinforced die-cast aluminium is resistant to impact, temperature peaks and atmospheric agents.

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

Detail of connection pliers





F.

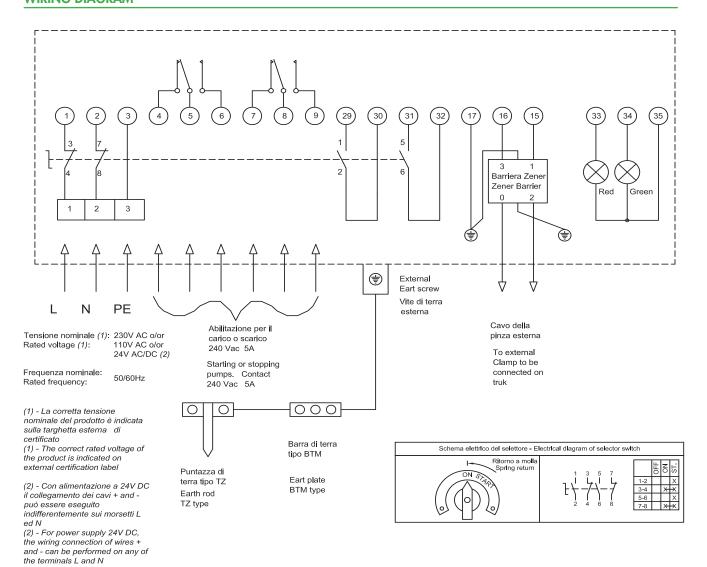
GRD-4200 Accessories upon request and spare parts

ILLUSTRATION	DESCRIPTION	MODEL	CODE	LEGEND
	Special switch	GRD	SEA10X2/12EZ16R	REAMBIO
	Monitoring logic	GRD-4200	LC-4200S	
		GRD-4200/110	LC-4200S/110	RICAMBID
		GRD-4200/24	LC-4200S/24	
	Zener barrier	GRD	BZ-4200	READING
	Earthing pliers	GRD	PZCC-4209	EFAMMO
	Yellow cable Length: 8 metres	GRD	NSSHOU-02X2,5	STANAID
	Barrier cable gland	GRD	FB2BK/3	ECCESON FRANCE

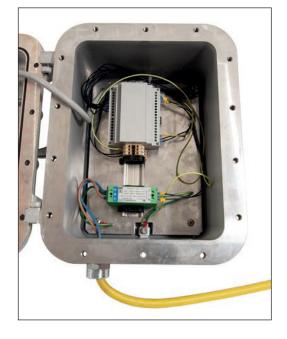
comm@antideflagrantigce.com



WIRING DIAGRAM



Internal view GRD-4200





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