

Ex GROUNDING AND GROUNDING CONTROL DEVICE  
Type GGCD-01/..



APPLICATION

Explosion protected grounding and grounding control device type GGCD-01/.. together with clamp make active grounding system for static grounding and permanent monitoring earthing, in areas endangered by flammable and explosive mixtures of gases and air, fumes of flammable liquids and air, or various combinations between the two, in danger zones 1,2 in accordance with related standards EN 60079-10

Explosion protected grounding and grounding control device type GGCD-01/.., intended for the permanent removal of electrostatic charge that may occur during filling or emptying tanks (road tanks, railcar tanks, barrels). The system provides the conditions for starting the production process only if the insured continuity control loop earthing resistance and jaw of clamp for grounding.

CONSTRUCTION

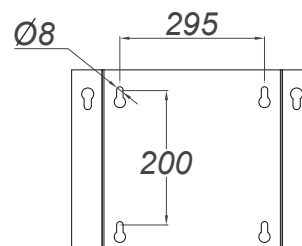
Enclosure: polyester plastic reinforced with glass fiber, color - black

Cover: with integrated Thermoplastic elastomer gasket, closes with four M6 stainless steel screws.

TECHNICAL DATA

Certificate:	Ex CESI 11 ATEX 041
Marking:	CE 0722
Apparatus category:	II 2G
Marking of explosion protection:	Ex d e [ib] mb IIC T5 Gb
Environment temperature:	-20 °C ≤ T <sub>a</sub> ≤ +50 °C
Degree of protection:	IP 66
Resistance to shock:	IK 08
Insulation class:	I (protective earthing) in accordance with EN 61140
Rated voltage:	230V ± 10%
Rated current:	50 mA
Frequency:	50Hz
Output circuit:	2 alternating contacts U <sub>n</sub> =250 V AC, I <sub>n</sub> =8 A / 230 V, 4 A at cosφ=0.4
Push button START:	Starting the system, control the time about 10s
Signal lamps:	<b>Red:</b> blinking inside control time (10 sec - MOD2), contacts NO are open, contacts NC are closed, continuous operation (MOD1 and MOD 2), contacts NO are open, contacts NC are closed <b>Green:</b> continuous operation (MOD1 and MOD 2), contacts NO are closed, contacts NC are open
Cable entries:	3 x M25 - power supply, two output circuit 4 x M25 - 2x connection clamp, 2x wire to equipotential busbar or grounding
Weight:	6 kg (without clamp and cable) weight of clamps with 10 m cable ca. 2,5 kg

MOUNTING





ATEX

CE 0722

IP 66

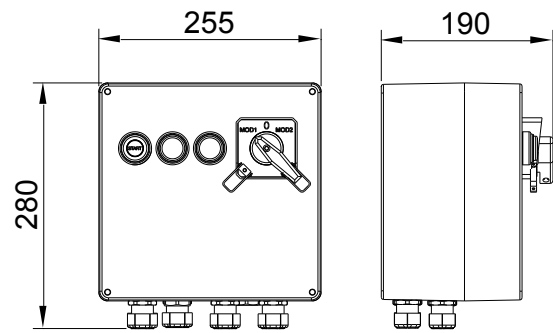
-20°C

+50°C

## MODEL CODE

## DIMENSION

TYPE	DESCRIPTION:
GGCD-01/K1	Type with one a clamp K1 with 10m spiral cable
GGCD-01/K2	Type with two clamps K1 with 2x10m spiral cable

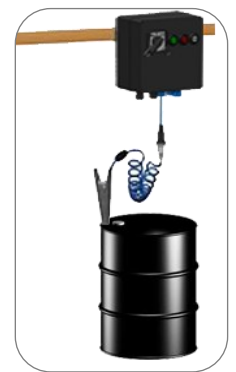


## ACCESSORIES:

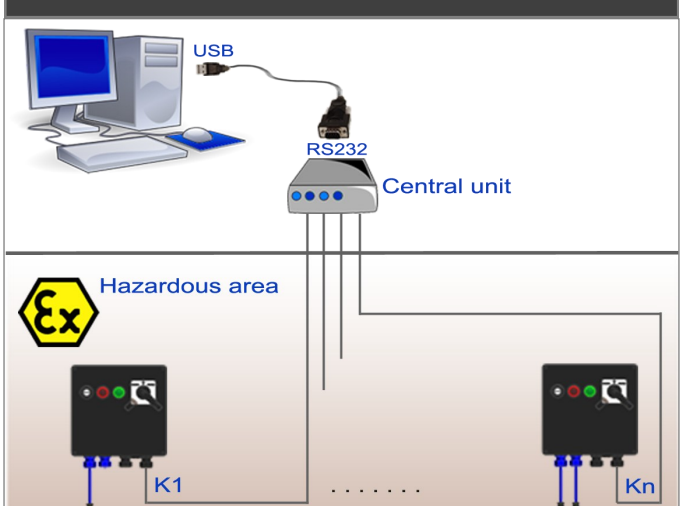
1. Cable reel - 20m with plugs for connection to GGCD
2. Metal cable glands for armoured cable Ex e II
3. Dislocated monitoring system

## Principle of work for GGCD-01/..

indication on the device	response device
	Clamps are not connected <ul style="list-style-type: none"> <li>• bright red light</li> <li>• disabled transport</li> </ul>
	Clamps are short-circuited with the earthing construction (for example, the iron fence) <ul style="list-style-type: none"> <li>• bright red light</li> <li>• disabled transport</li> </ul>
	Tank is connected via the device GGCD-01 <ul style="list-style-type: none"> <li>• bright green light</li> <li>• transport allowed</li> </ul>
	Tank is connected via the device GGCD-01 but cable to the grounding or busbar is broken <ul style="list-style-type: none"> <li>• bright red light</li> <li>• disabled transport</li> </ul>
	Tank is connected via the device GGCD-01 + successively ground through, for example, "loading arm" <ul style="list-style-type: none"> <li>• bright green light</li> <li>• transport allowed</li> </ul>



## Dislocated monitoring system



## Dislocated monitoring system type

## GGCD 01/PC CONTROL:

- modules GGCD 01/M1 placed in the device
- Central unit (outside of the hazardous area)
- Windows compatible applications (map with all installed GGCD devices, status, sound signal in case of failure)