

VAE CONTROLS GROUP

Grounding Monitor Model EGT4 & EGT6

for Tank Trucks And Railcars



Features

- Double relay output
- Intensive LED indication
- Exd protection
- Robust construction
- Resistant against incorrect usage
- Easy and quick installation
- No service needed
- 10 m cable + clamps + hanger inclusive as standard
- Available with labels in different languages
- Sea worthy packing

Description

The equipment consists of aluminium flameproof box with intensive LED indicators, intrinsically safe sensing line with 10 m cable and clamps, and holder.

Optionally we can provide sensing cable with extended length upto 20 m, coiled cable, or cable reel.



*Model **EGT6** grounding monitor with two sensing lines. Coiled cables are provided optionally.*

EGT series grounding monitors are designed for safe unloading and loading of liquids or gases in explosive hazardous areas. The equipment measures whether a vehicle is grounded properly to avoid risk of ignition of flammable atmosphere. Correct grounding is considered as interlock condition for loading/unloading.

High level of IP protection, extremely wide temperature working range and EC (ATEX) certification allow installation of the equipment worldwide. The equipment can be installed in loading terminals for monitoring of grounding state of tanktrucks and railcars or on vehicles. Setting for specific application is made in factory but it can be changed later, too. Necessary tools for re-configuration are available on request.

Model **EGT4** is equipped with one sensing line while **EGT6** has two lines. The electronics of **EGT6** allows independent setting of both sub-systems so that for example one can serve tanktrucks and the other railcars.

Main function of the equipment is checking of grounding status; **EGT** recognizes not only the three different states (1-Clamps are not connected (hanged), 2-Vehicle is grounded correctly, 3-Clamps are short-circuit to earth) but also their sequence which allows correct evaluation of proper grounding in different operating conditions.

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Functional Description

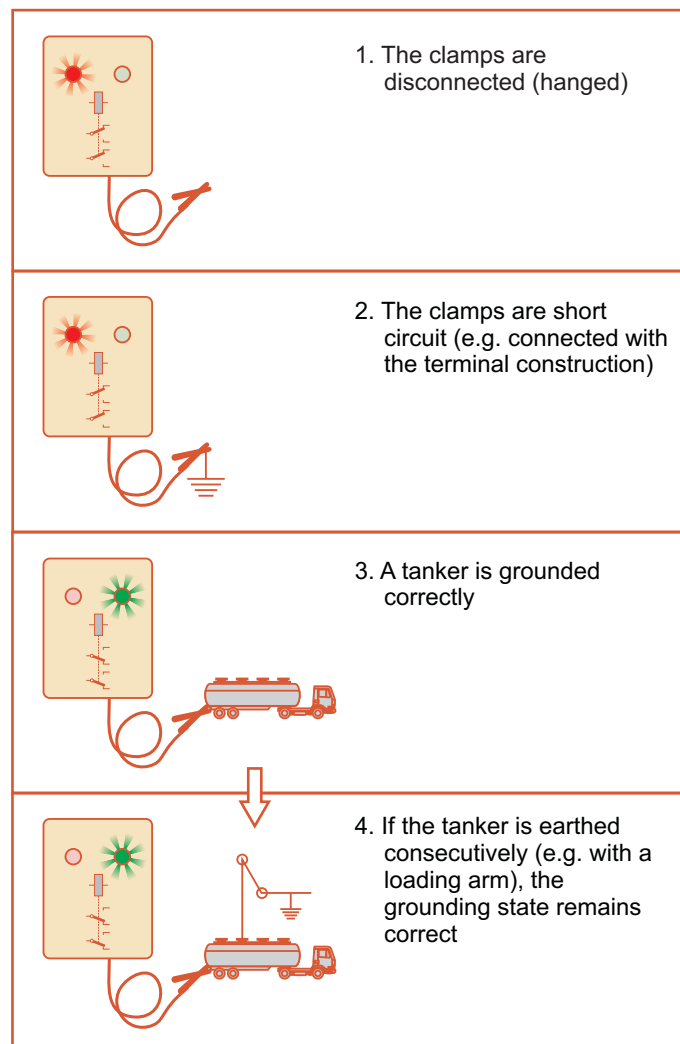
EGT indicates the grounding state by lights on front panel and by relay contacts. The contacts supposed to be connected with the electrical, automation, or ESD system which shall block the loading if grounding state is not correct.

The equipment uses a combined measuring principle to verify the grounding state, and is very resistant against the incorrect usage as shown on the second diagram. If the clamps are short-circuit to the ground, **EGT** recognizes this as wrong grounding. This pushes the operators to pay necessary attention to correct grounding of each tanker, and increases operating safety (this feature is available only by trucks - not by the railway cars).



Two of **EGT4** with coiled sensing cables

The unit can reach following states:



Specifications

	EGT 4	EGT 6
Power Supply Voltage	230 V, 50 Hz	
Power Consumption	10 VA	
Relay Output	max. 250 V / 3 A (2x)	
Ingress Protection Rating	IP 65	
Ex Protection	II 2G Ex d [ib] IIB T4, Category 2	
Temperature Working Range	-50 to +60 °C	
Storage Temperature	-50 to +60 °C	
Dimensions (w x h x d)	254 x 293 x 95 mm	254 x 293 x 95 mm
Mass without cable and clamps	6 kg	8 kg
Cable Length	10 m (optionally upto 20m)	
Clamps	Pressed galvanised steel, contact point – copper	

EGT4 with straight sensing cable



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