



# Electronic Ground Verification Controller

## Security During Loading

The basic function is AUTOMATIC EARTHING of tank trucks and railcars to the ground to ensure safe (un)loading operation at site.

GME4 is designed for discharging of electrostatic charge of tank trucks or railcars during the (un)loading of flammable liquids. The discharging is made by grounding.

Tankers can get electro-statically charged during driving and/or (un)loading, especially under dry or silty environmental conditions.

Proper electrostatic discharging of the tanker significantly reduces the risks of electrostatic sparks and consecutive explosions.

### Function

GME4 incorporates 2 functions:

**A** Grounding.

The clamp is connected through cable and electronics to the ground and GME4 ensures the lead of electrostatic charge.

**B** Signalization.

GME4 indicates the grounding status by lights on the front panel and by relay contacts. The contacts supposed to be connected with the electrical/control system, which will block the loading when grounding is not correct. The second output signal can be used for external alarm (horn or lights).

### Safer

The non-conductive measuring principle is used to verify grounding and therefore is resistant against incorrect usage. In case the clamp is short circuited (e.g. connected directly to steel construction) this is evaluated as INCORRECT grounding and NO permissive signal will be generated.

### Features and Benefits

- **Continuous** grounding & testing
- **Monitors** 3 states: Tanker connected correctly; Connection to earth point correct; Clamp not connected.
- **Non conductive** measuring principle
- **Relay output** with double contact
- **Intensive** (Red/Green) status indicator lights
- **Exd** protection
- **Robust** construction
- **Easy** installation
- **No** service required
- **Cable** (10 meter) and clamp included
- **2 clamp** version GME6, clamps can be individually set to Truck or Railcar.

### Accessories

**Cable** 10 meter spiral cable  
 Cable reel



GME 4

## Ordering Specifications

### GME adcd

a	4 6	1 clamp, IP65, II2G Exd[ib]IIB T4 2 clamps, IP65, II2G Exd[ib]IIB T4
b	UK PL DE RU	United Kingdom Poland Germany Russian Federation
c	1 2 3	10 mtr. straight cable -50°C / +60 °C 10 mtr. spiral cable -40°C / +60 °C cable reel -20°C / +40 °C
d*	A B	calibration RS232 interface calibration IrDA interface

\*determined by factory

## Product Specifications

### GME 4

Input power supply	230 Vac, 50Hz
Power consumption	10 VA
Output Relays	230V / 3A (2x)
Protection	IP65 II2G Ex d [ib] IIB T4
Operating temperature	-50°C to +60°C (see c above)
Approvals	ATEX
Weight	6 kg

As a part of our continuous commitment to product development OPW FTG reserves the right to alter its product specifications without prior notice