

The movement of flammable products through trucks and hoses can generate high voltages leading to fires or explosions caused by electrostatic sparks.

Rack mounted grounding systems are a great way of preventing spark ignitions, but trucks often need to transfer flammable products in locations where static grounding systems are not provided.

In this scenario truck operators normally rely on bonding their truck to a point that looks like it is grounded, without actually verifying if it has a **True Earth** connection that will safely ground electrostatic charges.

The Earth-Rite® MGV, removes any doubt about the integrity of the grounding point by verifying if it has a True Earth ground connection.

Additional products from the Mobile Grounding Solutions range enable truck drivers to reduce the risks of sparks from hoses and other equipment used in the transfer operation.



IECEX



Scenarios where trucks should be fitted with a Mobile Ground Verification system.

- Vacuum truck industrial cleaning and material recovery services for refineries and chemical plants.
- Bulk chemical road tanker truck transfers at sites where rack mounted grounding systems are not installed.
- Grounding vacuum trucks supporting emergency response HAZMAT teams recovering flammable products.
- Grounding trucks that are used to transport chemicals to various locations on chemical manufacturing sites.



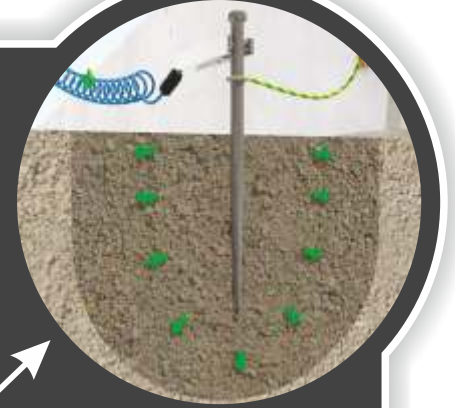
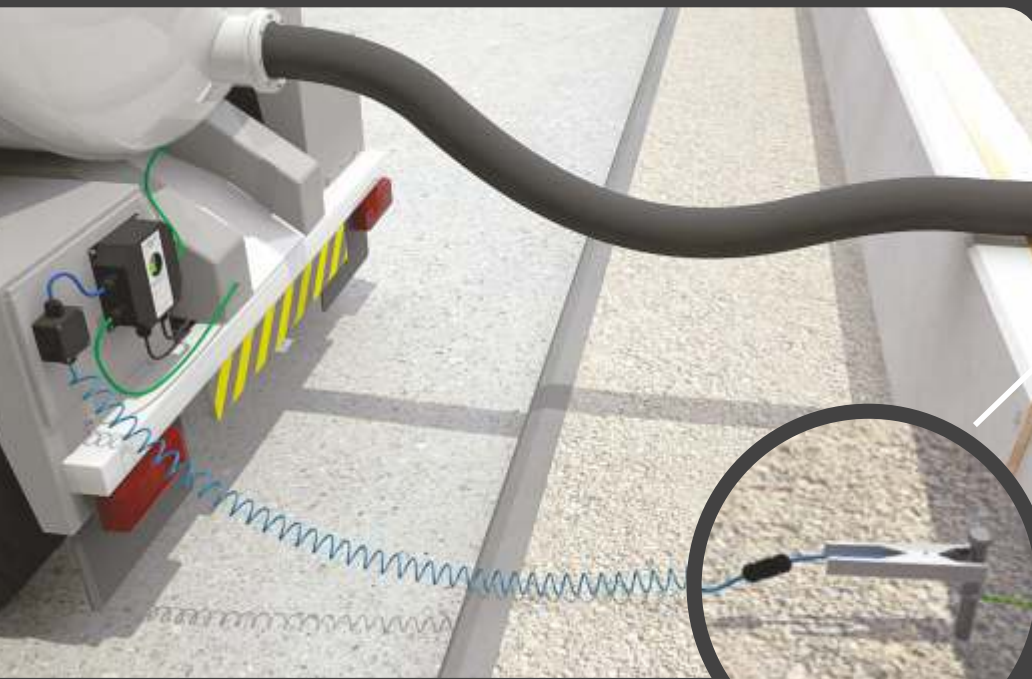
Earth-Rite® MGV

The **Earth-Rite® MGV** is a truck mounted grounding system that tests the integrity of a connection to True Earth.

Many objects like ground rods and plant structures are utilised to provide static grounding protection for trucks and many of these points are never tested to ensure that they can ground trucks safely. With the **Earth-Rite® MGV** you never need to question the integrity of a grounding point as it will ensure that your drivers or site contractors have a safe ground connection when handling flammable products.

Key Benefits

- More secure than basic bonding reels as a True Earth ground is not taken for granted.
- NO time delays waiting for electricians to take resistance readings.
- Simple 'GO / NO GO' design which is easy to operate and does not required specialist driver training.
- Demonstrates compliance with the primary standards in static control including API 2219, NFPA 77 and CLC/TR: 50404.
- Easy installation with the option to interlock with pumps or valves stopping the movement of product in the event that a ground connection is compromised.



The **Earth-Rite® MGV** tests the ground rod to ensure it has a low True Earth ground resistance. This will ensure the static electricity generated by the transfer operation is safely removed from the truck.

OhmGuard[®] Hose Continuity Tester

Key Benefits

- **Detects breaks** in electrical continuity of metal wire helices or internal wires that bond couplings together ensuring the metal parts of hose do not spark during operations.
- Simple **PASS / FAIL** indication and easier to use than multi-meters.
- **PASS** indication provided by a high intensity GREEN pulsing LED mounted in the **OhmGuard** clamp.
- Can be used in any flammable gas, vapour and dust atmosphere.

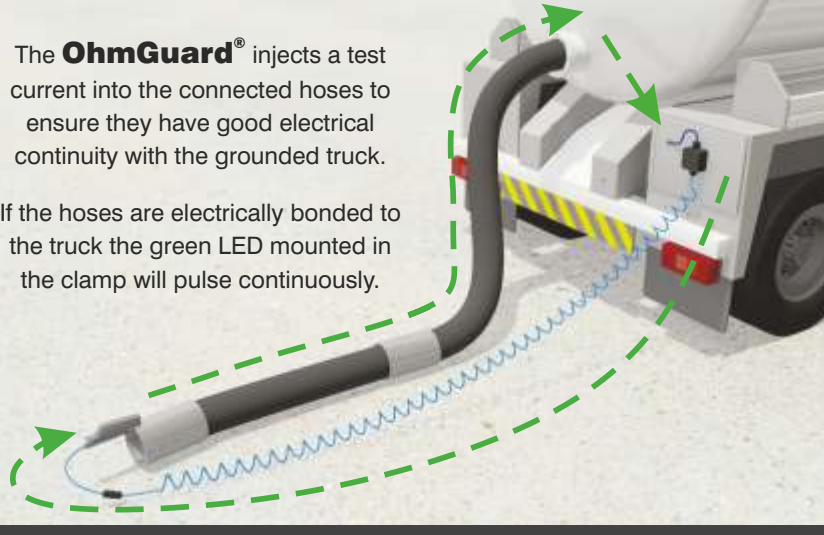


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The **OhmGuard**[®] injects a test current into the connected hoses to ensure they have good electrical continuity with the grounded truck.

If the hoses are electrically bonded to the truck the green LED mounted in the clamp will pulse continuously.



Bond-Rite[®] EZ Portable Bonding Verification

Key Benefits

- Ensures a **continuously monitored** bond connection between additional equipment (e.g. mobile pumps or IBCs) and the grounded truck.
- Simple **GO / NO-GO** indication via a pulsing GREEN LED indicator mounted in the clamp.
- Compliant with the recommendations of **NFPA 77**, **API 2219** and **CLC/TR:50404**.



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The **Bond-Rite**[®] **EZ** will indicate a 10 ohms or less bond between the grounded truck and additional equipment regularly used in transfer operations like IBCs, barrels and mobile pumps.



Mobile Grounding Accessories

2-Pole Cen-Stat™ Cable



The **2-Pole Cen-Stat™** cable can be used in conjunction with all of the devices listed on pages 2 and 3. The conductors are protected by Hytrel®, a cable compound with excellent mechanical and chemical performance. 10 mtr. (30ft) and 15 mtr. (50ft) lengths available to order. All cables are fitted with quick connects.

MGV Tester



The **MGV Tester** is an essential piece of equipment to have. It is designed to test the **Earth-Rite® MGV** ensuring the functions that verify a True Earth ground are working correctly. Testing the system at installation and during its lifetime provides extra confidence in the grounding capability of the **Earth-Rite® MGV**.

VESM02 Cable Reel



The **VESM02 reel** is an alternative to using retractable spiral cable. The NEMA4 housing does a great job of protecting the silver plated slip rings and internal electrical connections. The reel features a ratchet locking mechanism and is supplied with 15 mtr. (50 ft.) of **Cen-Stat™** 2 pole cable.

Mobile Ground Rod Kit



This portable **Ground Rod Kit** features 4 stainless steel probes interconnected with braided stainless steel cable and is ideal for locations where metal structures in permanent contact with the ground are not available to connect the **Earth-Rite® MGV** to. Easy to install and maintains good contact with the soil for the duration of the transfer operation.



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