GSUL safe ground indicator system
Prevents operation of pumps without a safe ground for static dissipation.

Class I, Division 1, Groups C, D, and Zone 1, Groups IIB, IIA; NEMA 7 Class II, Division 1, Groups E, F, G; NEMA 9

Instant visual confirmation of safe ground
The Russellstoll GSUL safe ground indicator system is designed to ensure that a safe ground has been established for dissipating ever-present static electricity from tank vehicles, carriers, drums and other conductive equipment before allowing the transfer of flammable materials. The GSUL indicates the establishment of a safe ground via two parallel-connected green signal lights. Two lights are used for redundancy – if one lamp burns out, visual indication of safe grounding will be maintained by the other.

Intrinsically safe circuitry
The GSUL safe ground indicator system features an intrinsically safe, low-energy ground-sensing circuit, which does not carry sufficient electrical energy to cause ignition in classified hazardous locations.

In operation, the ground-sensing circuit extends through the grounding clamp and its connection to the ground indicator, the metal portion of the vehicle between the jaw terminals of the clamp and earth ground electrode.

Pumps won’t operate until safe ground is established
A control relay in the GSUL safe ground indicator system provides interlocked control of pump motors at the loading platform. The electronic control circuit will be de-energized while the green lights are off. Attaching the clamps to the tank closes the interlocking contact and energizes the control circuits to the motors.

Applications
Volatile or classified areas such as:
- Tank farms
- Petrochem
- Cosmetics
- Grain mills
- Vehicular or rail transport

Specifications
Enclosure: Cast copper-free aluminum with epoxy powder-coated finish
Outlets: Regularly furnished tapped ¾” NPT
Relay Contacts: Rated 1/3 hp, 10 A, 120 V AC; 1/2 hp, 10 A, 240 V AC
Certifications: UL listed, CSA certified
**GSUL safe operating features**

- Two redundant, parallel green indicator lights glow when safe ground is established
- Lamps offer approximately 20,000 hours of operating life
- Unit may be ordered without lights where remote visual indication is desired
- Intrinsically safe, simplified circuitry
- Integral, intrinsically safe wiring compartment with approved strain-relief fitting for connection of cable from grounding clamp

Ground electrode connection (1 electrode required not provided by Russellstoll)

- Solid-state actuating and control circuits mounted on removable printed circuit board
- Enclosure protects components against moisture
- Control relay provided for interlocked control of pump motor at loading rack
- Grounding clamp (ordered separately) provides dual isolated tip contacts in a heavy-duty cast-aluminum handle design
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**Aerospace/industrial static ground devices**
Static grounding receptacles are used in airport and aerospace installations worldwide during fueling, testing and maintenance procedures. Normal mounting is concrete/tarmac floor inset, threaded onto copper ground rod.

Heavy brass construction cup includes optional cover and receptacle’s contact pin. Accommodates a wide variety of single-contact (copper on steel wire) static ground wire clamps in service.

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**Table**

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>GCC1</td>
<td>Ground cup with cover*</td>
</tr>
<tr>
<td>GC1</td>
<td>Ground cup without cover*</td>
</tr>
<tr>
<td>F06146</td>
<td>Replacement contact tip**</td>
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</table>

* Hub is tapped for 3/4”–10.
** Hub is tapped for 1/2”–13.
GSUL safe ground indicator system

Maximum 600 V AC or 250 V DC

<table>
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<tr>
<th>Cat. no.</th>
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<tr>
<td>GSUL25S</td>
<td>Safe ground indicator with indicator lights, 120 V, UL/CSA</td>
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<td>GSUL25S-240</td>
<td>Safe ground indicator with indicator lights, 240 V, CSA</td>
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<tr>
<td>SGC2</td>
<td>Safe ground static clamp</td>
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<tr>
<td>SGR25</td>
<td>Weathertight retracing reel with 25 ft. of 12/2 SJO-W cable</td>
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<tr>
<td>SGR50</td>
<td>Weathertight retracing reel with 50 ft. of 12/2 SJO-W cable</td>
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<tr>
<td>SGR75</td>
<td>Weathertight retracing reel with 75 ft. of 12/2 SJO-W cable</td>
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Replacement parts for GSUL

- C13662 Printed circuit board, 120 V (includes relay)
- GX24RCB Printed circuit board, 240 V (includes relay)
- F30674 Control relay
- F30602 Lamp socket assembly
- ELAG Pilot light globe assembly (green)
- 310993 Lamp for GSUL25S

Replacement parts for SGC2

- GX2TK Ground clamp repair kit

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**Maximum 600 V AC or 250 V DC**

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**GSUL-2-SS**

- 5.25”
- 3” mtg.
- 0.75” NPT conduit
- 10.25” NPT mtg.
- 0.75” dia.
- 0.37” hole
- 9.25”

**Indicating lights (green)**

**Line entrance**

- 3” sq.
- 0.75” dia.
- 2 holes rigid mtg.
- 4 holes pivot mtg. (optional)

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**SGR25, SGR50, SGR75**

- 2X conductor termination set screws
- Cable entry clamp and screw
- 2X “Rue pin” pivot pin locking
- 0.14”
- 6 PLS