Personal Electrostatic Eliminating Alarm

Red for Stop and Green for Go

Under certain conditions, a person's body can be electrostatically charged by friction and natural environmental conditions. The "Personal Electrostatic Eliminating Alarm" device is designed to prevent the accumulation and accidental discharge of static electricity from a person's body while providing audible and visible alarms.

Model: PS-Y

Specifications

Monitoring Electrostatic Voltage	-15KV to +15KV
Alarm Voltage	>150V
Height	1.1m (3.6ft.)
Certification	ExibIICT4 Gb

Features & Benefits

- Handle: Constructed of electrostatic conductive material.
- Static electricity from a person's body will be continuously discharged without any spark or discomfort.
- Provides constant monitoring with audible and visible alarms.

Model: PS-A2

The model PS-A2 includes all of the features included in our PS-Y models with the additonal *special features*:

- Audible voice warning when people approaching.
- OLED Display indicates the resistance value.

Leakage Detector ≫

Model: UZK-SA-LD

Leakage Detectors are designed for detecting oil and water between two layers of double wall tanks and pipelines. Audible and visible alarms will be sent out once the sensors detect a leak.

Controller   Leak sensor for
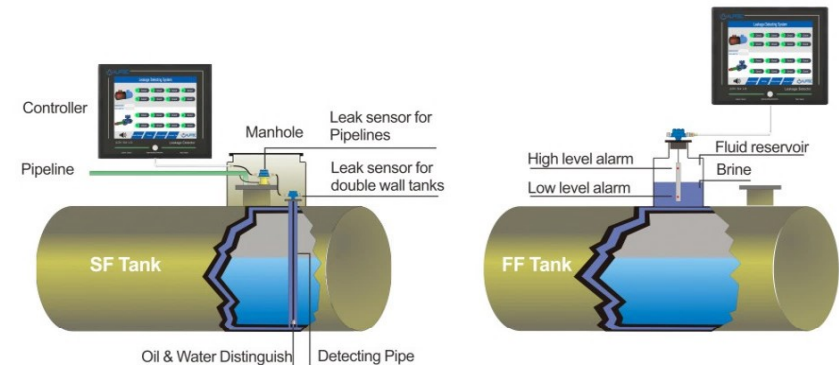SF double wall tanks   Leak sensor for
FF double wall tanks   Leak sensor for
Pipelines

Specifications

Detecting Accuracy	<3mm
Input Power	220VAC±10%
Signal Output	One relay (normally open / normally closed)
Operation Temperature	-40°C to +60°C (-40°F to +140°F)
Certification	ExiaIIBT4 Ga

Features & Benefits

- Audible and visible alarms.
- Automatic self-check feature.
- A mute button will stop the sounder when necessary.
- Easy to mount and install.
- Oil and water distinguish.

Static Grounding Devices ≫
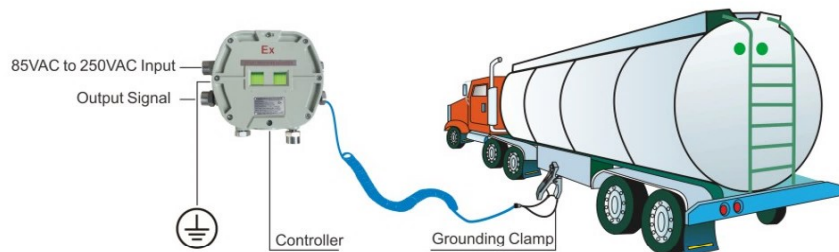
Static Grounding Monitoring Systems

Model: SLA-S-Y

The "Static Grounding Monitoring System" functions as a part of an Overfill Protection & Earthing System. These provide a visual green light indicating a confirmed grounding condition of road tanker vehicles during the transfer of flammable and combustible materials. A red light indicates the absence of a dependable grounding. An interlock circuit inside the control panel will prevent pumps and equipment from starting until a satisfactory ground is established. The interlock circuit will also shut off pumps and equipment if the ground is lost during the pumping operation.

CE 2460

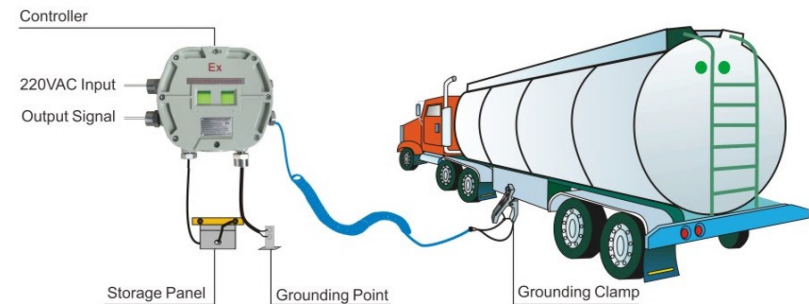⟨Ex⟩ II 2(1) G Ex db ia [ia Ga] IIB T5 Gb

Model: SLA-S-Y

During fuelling, loading and unloading operations, the vehicles should always be grounded. The "Static Grounding Monitoring System" will automatically shut off the loading and unloading operations if the grounding is broken at any time during the operation.

≫ Specifications

Input Power	85VAC to 250VAC 50Hz
Input Current	<60mA
Output Signal	On-off signal
Monitoring Set Point	10 ohms
Alarm	Visible alarm
Spiral Cable	Extendable to 5.3m (17.4ft.)
Output Safety Parameters	Um:250VAC,Uo:14.28VDC,Io:27.2mA,Po:97mW,Co:4.17μF,Lo:192mH
Indicator	Lamp (Green=satisfactory ground and red=no ground)
Operation Temperature	-20°C to +55°C (-4°F to +131°F)
Eu-Type Examinate Certificate No.	Presafe 16 ATEX 8909X
QAN Certificate No.	Presafe 16 ATEX 7744Q
Standard	EN 60079-0,EN60079-1,EN60079-11
Applicable Directive	2014/34/EU

≫ Specifications

Input Power	220 VAC or 24VDC
Input Current	<60mA
Output Signal	On-off signal
Monitoring Set Point	10 ohms
Alarms	Audible and visible alarms
Spiral Cable	Extendable to 5.3m (17.4ft.)
Indicator	Lamp (Green=satisfactory ground and red=no ground)
Operation Temperature	-40°C to +60°C (-40°F to +140°F)
Alarm Volume	>90dB
Certification	ExdiaIIBT4 Gc

85VAC to 250VAC Input
Output Signal
Controller
Grounding Clamp

Controller
220VAC Input
Output Signal
Storage Panel
Grounding Point
Grounding Clamp

Static Grounding Reels

Model: S-RL

The ATEX approved "Static Grounding Reels" have a self-retracting cable drum and an instant locking mechanism to prevent the cable from becoming tangled.
The Standard S-RL model includes a 7m (23ft.) polyurethane jacketed stainless steel cable. An ATEX approved, heavy duty grounding clamp (with replaceable stainless steel tips) is connected to the cable for a solid connection to the grounding surface. S-RL Reels are also available with 15m (49ft.) and 20m (65ft.) cable lengths.

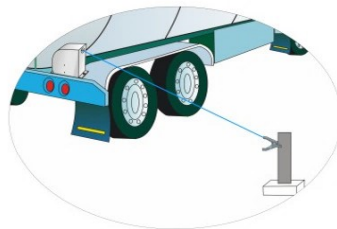CE ⟨Ex⟩ II 2G Ex h IIC T6 Gb

➤ Features & Benefits

- Stainless steel housing and base plate.
- The sealed housing prevents the cable from being exposed to corrosive and harsh environments.
- The self-storing cable design prevents personnel from being exposed to trip hazards. The self-retracting cable mechanism keeps the cable stored in a safe, organized manner.
- An instant locking mechanism holds the cable at the desired extended length.
- Applicable Directive: 2014/34/EU

Static Grounding Reel with Alarm *Battery Operated*

Model: SA-YL

The model SA-YL includes all of the features included in our S-RL models with the following **special features**:

Alarm	Audible alarm
Alarm Volume	>90dB (Alarm sounder 90dB at 30cm)
Monitoring Set Point	60 ohms
Battery	Lithium battery (3.6V)
Clamp Cable Length	7m (23ft.)
Certification	ExiaIICT4 Ga

Self-testing Grounding Clamp with Visible & Audible Alarms

Battery Operated

The accumulation of static charges during the fuelling transfer process can lead to costly explosions, fire and personnel injury. The "Self-testing Grounding Clamp" with visible & audible alarms is designed to dissipate static charge accumulation and verify proper grounding. It is intrinsically safe and designed for use in hazardous locations.
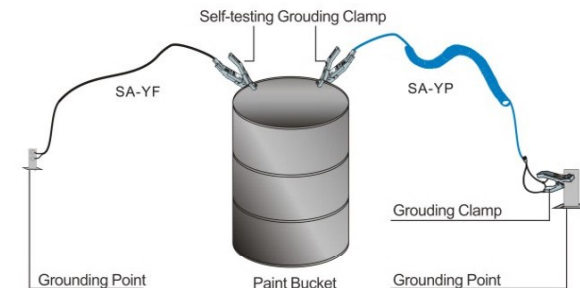
Model: SA-YP (Mobile)

Cable length	5m (16.4ft.) spiral cable
Clamp 1	SA-Y (visible and audible alarms)
Clamp 2	SC-02

Model: SA-YF (Fixed)

Cable Length	5m (16.4ft.)
Clamp	SA-Y (visible and audible alarms)
Lug	60A (SC35-10, Φ10MM)

➤ Features & Benefits

- Low energy consumption design makes battery replacement unnecessary during normal operation. Digitron resistance display.
- After 60 seconds of continuous alarm it will go to rest status and will return to normal in a closed circuit.
- The electrical circuitry is totally covered by epoxy resin, making it damp-proof, rust-proof, corrosion-proof and shock-proof.

Self-testing Grouding Clamp

SA-YF

SA-YP

Grounding Point

Paint Bucket

Grouding Clamp

Grounding Point

Grounding Clamps

In order to dissipate the electrostatic charge from various equipment, we have a wide range of static grounding clamps with cables that are all ATEX approved, certification: CE ⟨Ex⟩ II 2 G T6

Model: SC-01

- Die-cast aluminum construction with 2 stainless steel points.
- Strong spring pressure allows the clamp to penetrate multiple layers of paint or corrosion build-up to ensure proper bonding.
- Suitable for grounding and bonding for a wide range of containers, drums and machinery.

Opening: 20 mm   Size: 112mm X 80mm   Weight: 140g

Model: SC-02

- Die-cast aluminum construction with 2 stainless steel points.
- The sensing clamp can be connected to an electronic apparatus via a two-core cable.
- Suitable for grounding and bonding a wide range of tanker trucks and railcars.

Opening: 28 mm   Size: 160mm X 86mm   Weight: 295g

Model: SC-03

- Die-cast aluminum construction with 3 stainless steel points.
- The sensing clamp can be connected to an electronic apparatus via a two-core cable.
- Suitable for grounding and bonding a wide range of tanker trucks and railcars.

Opening: 30 mm   Size: 160mm X 86mm   Weight: 300g

Model: SC-04

- Die-cast aluminum construction with brass jaws.
- Brass jaws are designed to allow proper contact onto unpainted surfaces, posts or thin materials.
- Suitable for grounding and bonding of refueling vehicles and aircraft.

Opening: 18 mm   Size: 112mmX 80mm   Weight: 160g

Model: SC-05

- 316L stainless steel construction with 3 stainless steel points.
- Ideal for use in the areas where high corrosion resistance is required.

Opening: 18mm   Size: 160mm X82mm   Weight: 300g

Model: SC-06

- 316L stainless steel construction with 3 stainless steel points.
- Ideal for use in the areas where high corrosion resistance is required.

Opening: 28mm   Size: 236mm X 93mm   Weight: 510g

C Clamps

We make a series of stainless steel C clamps with the sizes from 3/4" to 1 1/2".

- Provide semi-permanent connections on flat materials.
- Can be produced to specific sizes.

Model	Size	Range	Weight
CC-01	3/4"	1mm to 15mm	114 g
CC-02	1 1/2"	1mm to 33mm	173 g

Pipe Clamps

We make a series of bronze pipe clamps which can be adjusted from 1" to 3".

- The rugged design provides a positive connection to penetrate paint and rust.
- Equipotential connection for loading arms and pipes.
- Can be produced to specific sizes.

Model	Size	Pipe Range	Weight
PC-02	1"	33mm to 35mm	50 g
PC-03	1 1/2"	47mm to 50mm	150 g
PC-04	2"	59mm to 62mm	200 g
PC-05	2 1/2"	75mm to 78mm	260 g
PC-06	3"	88mm to 92mm	280 g

Grounding Assemblies

SC-L1
1 SC-01 clamp with 4m of spiral cable & lug

SC-L2
2 SC-01 clamps with 4m of spiral cable

SC-L3
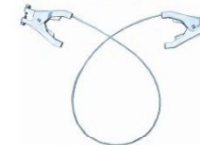1 SC-01 clamp with 4m of spiral cable & 1"pipe clamp

SC-L4
1 SC-01 clamp with 4m of spiral cable & 3/4" C clamp

SC-T1
1 SC-01 clamp with 1m of stainless steel wire & lug

SC-T2
2 SC-01 clamps with 1m of stainless steel wire

SC-T3
1 SC-01 clamp with1m of stainless steel wire & 1"pipe clamp

SC-T4
1 SC-01 clamp with 1m of stainless steel wire & 3/4" C clamp