IONFIX Static Generator

High Voltage Static Generation in a Compact Unit

Using the latest high voltage technologies, IONFIX sets new standards in performance, control and ease of use.

- Designed for manual use or for complete integration within a process.
- Full range of features and capabilities in a compact and versatile construction
- Available in positive and negative polarities
- Remote operation and signals available
- Display rotates 180°
- Large, clear LED display and interface

APPLICATIONS
- Temporary adhesion
- Hole detection
- Product charging
- Material separation

BENEFITS
- Increase production speeds
- Increase profits
- Reduce rejects
- Reduce downtime
- Enhance product quality
- Enhance operator safety

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Two year warranty
IONFIX Benefits & Advantages

**PERFORMANCE:**
- 0 to 30kV
- 20 Watts of power, giving 1mA at 20kV and 0.67mA at 30kV
- four output connections
- available in positive or negative polarities
- fast rise and fall times

**ELECTRICAL:**
- supply: models available with 24V DC or 85-264V 50/60 Hz
- remote operation and signals through 25-way D type connector

**MOUNTING:**
- versatile mounting brackets and the 180° rotation of display allow mounting on bench, under bench or on wall

**IONFIX Specifications**

**DIMENSIONS:**
277mm (10.9") x 158.3mm (6.23") x 105.25mm (4.15")

**CONTROL:**
- easy to use, clear, simple keypad controls with dedicated buttons
- user interface has large, clear display with precise running information and fault analysis
- large, clear LED display of operating status
- remote operation available for on/off, adjustment of voltage and adjustment of current limit

**RELIABILITY AND SAFETY:**
- protected against overload, short-circuit, sparking and mis-wiring
- multiple levels of safety circuitry
- designed to comply with harmonized safety standard EN 62368-1:2014
- connectors rated at 60kV

**CONSTRUCTION:**
- powder coated steel
- flexible mounting brackets
- modular design for easy replacement of parts over a long life

**INSTALLATION:**
- dry, oil-free location
- ambient max. 50°C (125°F), 70% RH, non-condensing

**APPROVALS:**
- EMC Directive: 2014/30/EU

**ELECTRICAL:**
- IONFIX-DC
  - 24V DC
  - 2A terminal block and 5m cable supplied
- IONFIX-AC
  - 85-264V AC 50/60Hz 1A
  - IEC 320 C14 inlet and connector

**Unique power distribution of IONFIX Generator:**

- IONFIX Compact Generator
- Competing Generators
7081 Charging Bars

A safe, controllable, reliable and cost-effective method of applying static charge for temporary adhesion in applications including interleaving steel sheets, pinning plastic sheets and webs, bag making, wrapping machines.

Standard lengths available: 6", 12", 18", 24" and 36". Can be ordered up to 118" lengths in one inch increments.

Order as follows: GN-7081-###(10)
### designates the length required; Ex: 12" bar is GN-7081-012(10)

Dimensions: 
- **H = 1.80" (46mm)**, **W = 0.79" (20mm)**
- Dimensions, Length: up to 118" in 1" increments
- Effective Length: 2" (50mm) less than overall length
- **Cable:** 10' (3m) of in-line protected HV cable with screw-in connector
- **Emitters:** "stay sharp" alloy
- **Mounting Studs:** M8 x 60 MB Nylon

Operating Range:
- Effective operating distance depends on the application and material being processed. Plastic sheets and webs are much easier to charge than paper or other semi-conductive materials.
- Typical mounting distance from bar-to-object to be charged is 1.5" for 30,000 volts and 1.25" for 15,000-20,000 volts. Start at 2.25" from the object to be charged and reduce distance if required for better effectiveness.
- Mount bar straight and parallel with the object to be charged and the earth ground to ensure an even current coverage.

7090 and 7095 Static Pinners

For electrostatic charging of small areas and pinning. Use in "neck-in" applications on cast film lines, edge pinning of films, in-mold labeling and other areas where temporary adhesion of two materials is required.

<table>
<thead>
<tr>
<th>#7090</th>
<th>#7095</th>
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<tbody>
<tr>
<td><strong>Size:</strong></td>
<td>0.79&quot; (20mm) dia.</td>
</tr>
<tr>
<td><strong>Emitters:</strong></td>
<td>tungsten carbide</td>
</tr>
<tr>
<td><strong>Safety:</strong></td>
<td>100Mohm resistance</td>
</tr>
<tr>
<td><strong>Material:</strong></td>
<td>Flame retardant UL94V0 PVC and epoxy</td>
</tr>
<tr>
<td><strong>Temperature:</strong></td>
<td>60°C (140°F) max</td>
</tr>
<tr>
<td><strong>Weight:</strong></td>
<td>140g + cable</td>
</tr>
<tr>
<td><strong>Cable:</strong></td>
<td>6.5 ft (2m) of HT cable protected by nylon conduit</td>
</tr>
</tbody>
</table>

7093 Edge Pinner

Designed to allow accurate, high performance edge pinning on film.

**Size:** 5.3" (220mm) length x 1.2" (30mm) width

**Emitters:** 0.12" (3mm), available in various lengths

**Safety:** Coupled to HV with 100MOhm

**Material:** PTFE Body; Titanium emitters

**Temperature:** Pinner and emitters 140°C (284°F); Cable and conduit 80°C (176°F)

**Cable:** 6.5 ft (2m) of 60kV cable

**Installation/Mounting:** Supplied with polymer mounting brackets
IONFIX Part #s

IONFIX Static Generator
- GN-IONFIX(N)-AC: IONFIX-Compact-Negative-AC
- GN-IONFIX(P)-AC: IONFIX-Compact-Positive-AC
- GN-IONFIX(N)-DC: IONFIX-Compact-Negative-DC
- GN-IONFIX(P)-DC: IONFIX-Compact-Positive-DC

Hand Held Wand
- GN-7097: Hand Held Wand
- GN-81304: Additional HV Cable (per m)
- GN-81292: Low Voltage Control Cable (per m)
- GN-73021: 60kV Ionfix Connection

Connector Box
- GN-7700: Connector Box
- GN-7700-R: (with 100 MOhm resistor)
- GN-81304: Additional HV Cable (per m)

IML Electrodes
- GN-771(1m): Single Point
- GN-771R(1m): (with 100 MOhm resistor)
- GN-772(1m): Single Pin
- GN-773(1m): Ring Terminal
- GN-81319: Additional Silicon Cable (per m)
- GN-77020: Additional 7700 Connector

IML Splitter
- GN-7701: Basic Splitter Box - 1 electrode
- GN-7702: Basic Splitter Box - 2 electrodes
- GN-7703: Basic Splitter Box - 3 electrodes
- GN-771(500mm): Single Point
- GN-772(500mm): Single Pin
- GN-773(500mm): Ring Terminal
- GN-81319: Additional Silicon Cable (per m)
- GN-81036: Plated Emitter Pins
- GN-73021: 60kV Ionfix Connection
- GN-77020: Additional 7700 Connector

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