

# Staticmaster®

## In-Line Alpha Ionizers



The model **P-2021** is a simple, reliable, efficient and effective means of eliminating static in a variety of industries, including electronics, optics, graphics and finishing. Easy to install on any clean, dry compressed air or inert gas line, the P-2021 emits a powerful stream of ions to quickly neutralize electrostatic charges. By design, the P-2021 never goes out of balance, so it does not require periodic calibration. In addition, it requires no electrical power to operate, so it's intrinsically safe for use in flammable or explosive environments.



The model **P-2031** is designed to deliver high volumes of ionized compressed gases at low pressure. Similar to the P-2021, it is easily installed on any clean, dry compressed air or inert gas line. As the compressed gas passes through the device, it is ionized and does not require a specific distance from the affected surface to achieve proper ion intermix. The P-2031 always produces a balanced ion output down to zero volts. The P-2031 is ideally suited for removing static charges in storage containers and hoppers, such as those used in the recycling of plastic scrap or pelletizers where a large area of coverage is required.



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### Model P-2021 In-Line Ionizer Specifications

**Diameter:** 0.50" (12.7 mm)

**Weight:** 1.3 oz (37 g)

**Material:** Stainless steel

**Gas:** Clean, dry compressed air or inert gas

**Pressure:** Normal: <40 psig (2.8 bar)  
Maximum: 100 psig (6.9 bar)

**Temperature:** Maximum temperature 310° F (155° C)

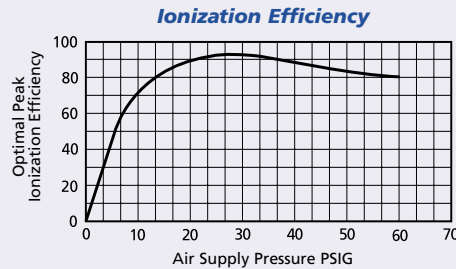
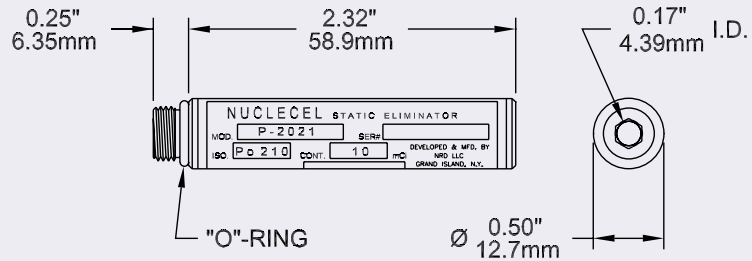
**Isotope:** Polonium-210

**Emission:** Alpha

**Activity:** 10 mCi (370 MBq)

**Line Connections:** 1/8" – 27 NPSM thread male/female

**Decay Time:** 0.7 seconds (ESD Association 3.1 @ 30 psig, 12" distance, 1,000 to 100 V)



### Model P-2031 Specifications

**Diameter:** 1" (25.4 mm)

**Weight:** 3.5 oz (100 g)/10 oz (286 g)

**Material:** Aluminum/316 stainless steel

**Gas:** Clean, dry compressed air or inert gas

**Pressure:** Normal: <20 psig (1.4 bar)  
Maximum: 100 psig (6.9 bar)

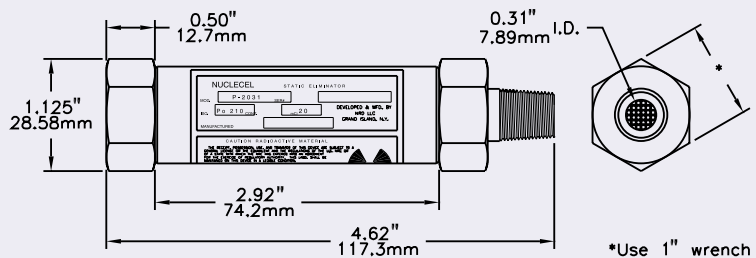
**Isotope:** Polonium-210

**Emission:** Alpha

**Activity:** 20 mCi (740 MBq)

**Line Connections:** 1/4" NPT male and female

**Decay Time:** 0.5 seconds (ESD Association 3.1 @ 10 psig, 12" distance, 1,000 to 100 V)



\*Use 1" wrench

### Note on Ion Source

All NRD ion sources are encapsulated in precious metals by means of a patented process. This results in a static eliminator which resists oxidation, solvents, heat, cold and vibration.

To maintain peak performance and conform to government regulations, ionizers are available on a one-year lease.

**Notice:** NRD warrants that these materials are reasonably fit for the purpose described. We believe that specifications and technical information presented are based on test methods that produce accurate results. The foregoing limited warranty is expressly made in lieu of, and no other express and no implied warranty of merchantability or fitness for a particular purpose is made. NRD, LLC, will not be liable for incidental, consequential, special, exemplary or punitive damages. The limited warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, error or failure to properly maintain, clean or repair products.



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