



**FRASER**  
Anti-Static Techniques



The NEOS Range



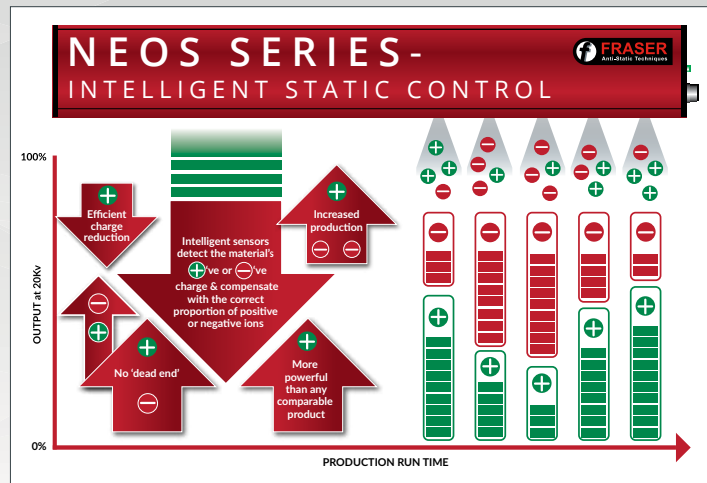
More Powerful

A NEW  
DIMENSION IN  
STATIC CONTROL

**NEOS**

**SENSEMASTER LTD**

[fraser-antistatic.com](http://fraser-antistatic.com)



## The 24V DC revolution in static control has taken a giant step with NEOS technology.

Building on the success of the original 3024 24V DC Bar, Fraser has developed three new high performance Static Eliminator Bars for the most demanding applications in the plastics and converting industries. These Bars use NEOS technology to increase the performance by up to 250% compared to competitive products.

NEOS works by sampling the electric field of the static charge and then increasing the supply of ions of the opposite polarity until the charge is neutralised. The sampling can be many times a second, so the response is very fast. NEOS has been tested at process speeds of 2000m/minute to ensure that it can cope with the increasing speeds in the converting and papermaking industries.

The development of NEOS required the design and manufacture of a unique suite of computerised high voltage test equipment which Fraser believes is the most advanced in the electrostatics industry. It can be programmed to sequence a variety of

tests automatically – doing in one day what previously had taken at least a month of manual testing.

In addition to providing ultra-high performance, NEOS provides process security for static critical applications. It monitors the Bar and provides the customer with signals showing its operational status and whether it needs cleaning or other maintenance. The customer also has the option to switch off the intelligence and use the Bars as conventional (powerful) static eliminators, making this the most flexible static eliminator available today.

All NEOS Bars are powered by 24V DC. All the ionising and sensing electronics are enclosed in the Bar. Tungsten emitters, replaceable on the NEOS 20 and 30, guarantee many years of high performance. The high voltage is resistively coupled for safety. All Bars are available in lengths up to 5m, with reinforced bodies for durability.

### NEOS: Customer Benefits

- Reactive intelligence which boosts static neutralisation power by up to 250%
- Highest static neutralisation power
- Four models to cope with faster speeds and longest distances
- Remote and local monitoring of status and maintenance requirements
- Robust construction, with reinforced body, tungsten emitters, IP67 construction
- Certified to international standards for worldwide use



## The Fraser 24V DC range:



**3024**

Market proven compact DC static eliminator operating at up to 11kV.

Available in two versions: F Model for distances 25mm to 100mm, L Model for 100mm to 600mm.

UL Listed, CB and CE certified.

Dimensions: 31.5mm (H) x 22mm (W).

Length: 300mm (min) in 60mm steps up to 5m.



**NEOS 12**

NEOS reactive technology increases 12kV performance by up to 250%. Available in two versions. NEOS 12F is the most powerful short range Bar for very high speeds available today, operating at distances from 30mm to 100mm. NEOS 12L offers the benefits of the F model for medium range distances up to 600mm.

UL and CB pending. CE certified.

Dimensions: 45mm (H) x 25mm (W).

Length: 360mm (min) in 120mm steps up to 5m.



**NEOS 20**

NEOS 20 opens a new sector in the static control industry, using 20kV DC to offer the most powerful medium range performance, from 150mm up to 750mm.

UL and CB pending. CE certified.

Dimensions: 66.5mm (H) x 28mm (W).

Length: 450mm (min) in 150mm steps up to 5m.



**NEOS 30**

The long range NEOS 30 is designed for the most difficult applications at distances from 200mm to 1m. For longer distance, beyond the sensitivity of the NEOS sampling process, the operator can switch the Bar to manual mode and allow it to perform at distances up to 2m.

UL and CB pending. CE certified.

Dimensions: 76mm (H) x 33.6mm (W).

Length: 600mm then 750mm then steps of 250mm to 5m.