

DUST & STATIC

4200 SINGLE POINT IONISED AIR NOZZLE

High performance static eliminator suitable for neutralising the static charge and removing dust on smaller objects.

The 4200 Single Point transports ionised air at high speed towards the object. The ionisation kills the static charge allowing the dust to be blown off by the fast-moving air.

- > Design optimised for maximum static neutralisation and blow-off power, with minimum air consumption and noise.
- > The air nozzle is an airflow amplifier which magnifies the compressed air by a factor of up to 20 for economical and quiet operation. Air pressure can be adjusted from 1 Bar for gentle ionised airflow to 7 Bar for removing stubborn dust. At 4 Bar pressure the noise level is under 68 dBA.
- > All critical parts are encapsulated for a long life and market-leading reliability. All parts may be replaced if damaged.
- > Compact and easy to install with standard 1/4" air connection.
- > Completely shockless in operation.



Specification

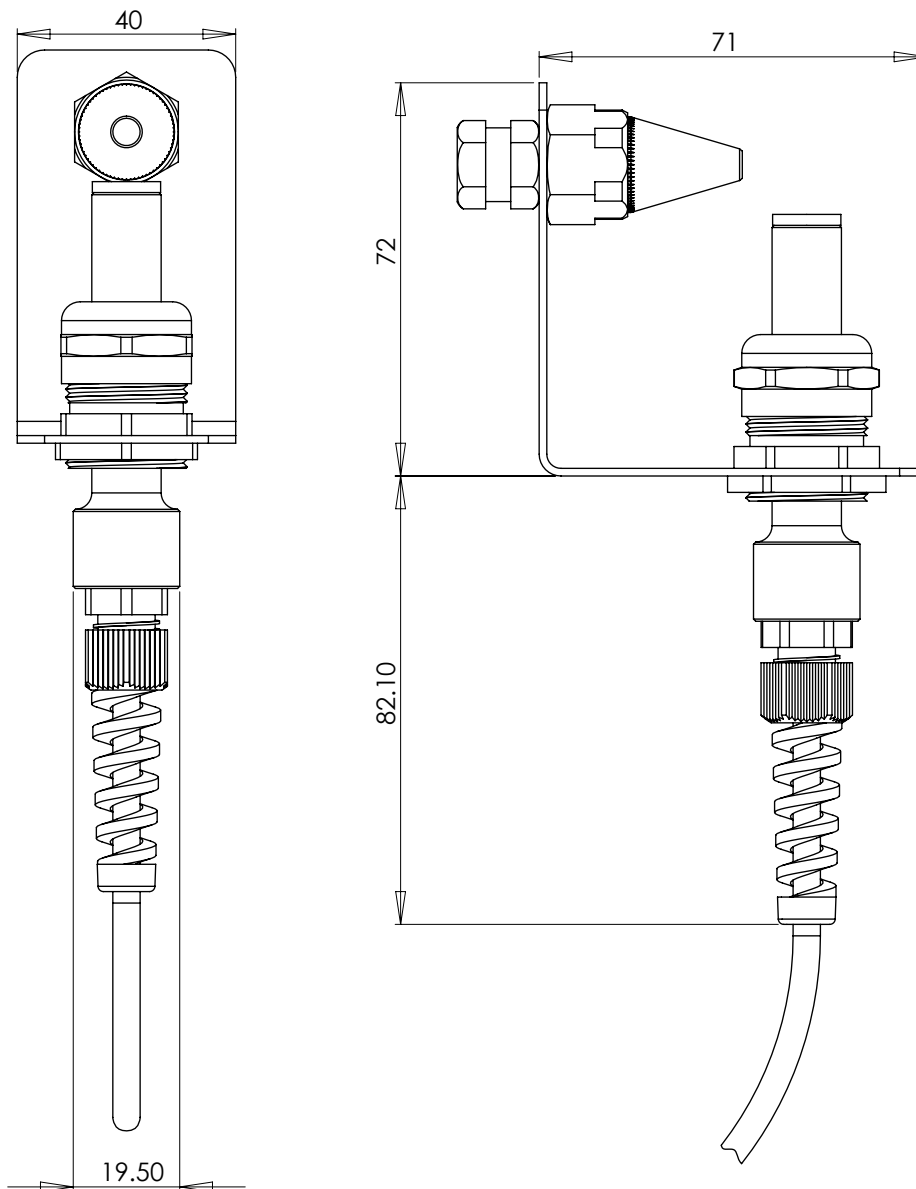
Construction:	Stainless steel body with PTFE and nylon. Stainless Steel bracket with anodised aluminium air nozzle.
Cable:	Hi-Flex 30 kV screened cable with 70 mm bend radius. Standard length is 2 m - longer lengths can be specified at time of order (subject to maximum load on power unit).
Air consumption:	Regulate down to required pressure. From 1 Bar to 7 Bar. Air must be clean and dry.
Environment:	60° C max. 70% rH non-condensing max.
Safety:	100 MOhm resistance for shockless operation. The system is shockless and meets OSHA and other standards as the nozzle cannot be dead-ended.
Power Unit:	Use with Fraser 5.5 kV and 6 kV Power Units. See Datasheets.

Air Consumption

Pressure	Compressed Air Consumption	Thrust
3 Bar	168 lit/min	1.2 N
4 Bar	196 lit/min	1.6 N
5 Bar	224 lit/min	1.9 N
6 Bar	248 lit/min	2.3 N
7 Bar	270 lit/min	2.7 N

Typical operating distance is 100 mm with a pressure of 5 Bar. At 100 mm the air covers 100mm width.

4200 Dimensions



4200SP_DS_iss4