

PRECISION SIP

High-performance ionisation electrode for ESD applications



Key Facts

- ✓ **Compact ionisation system** with integrated high-voltage power supply and 24 V DC supply voltage
- ✓ **ESD compliant: Ongoing offset voltage of less than 35 V** according to standard DIN EN 61340-5-1
- ✓ **Compressed air-assisted ion transport** to increase range with minimum compressed air consumption
- ✓ **High-frequency technology** ensures optimally adapted discharge performance

Product Description

The PRECISION ionisation system is specially designed to be used in high-tech applications and meets the stringent ESD requirements. The units comply with IEC 61340-5-1, with a residual charge (ionic balance) <of 35 V. The compact ionisation system includes an integrated HV power supply and a dedicated control unit with LED status display and control station signal to indicate the operating status. The high-frequency technology ensures optimally adapted discharge performance.

The PRECISION ionisation electrodes generate positive and negative ions, which are transported via an integrated blowing nozzle; the ionised airstream then neutralises any charges present on ESD-sensitive components. The high-voltage power supply and monitoring system are built in to enable space-saving and easy system integration.

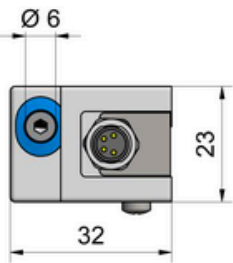
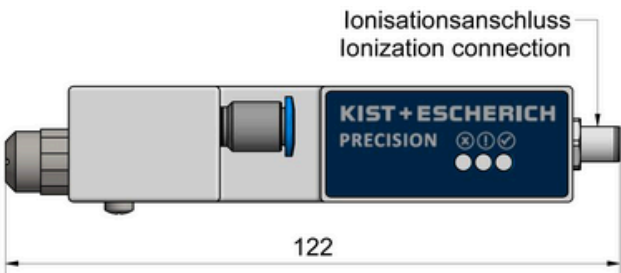
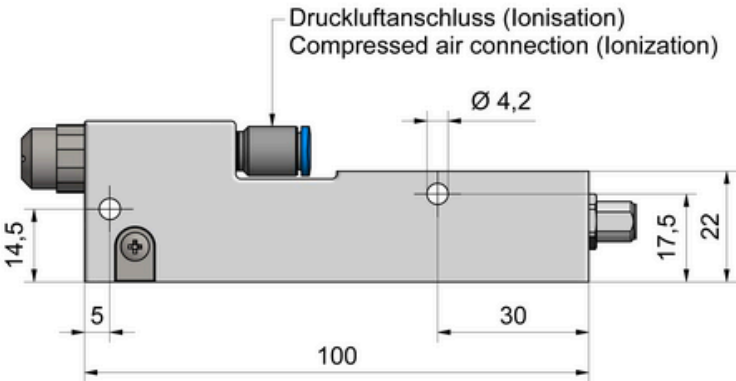
- For ESD applications with a residual charge (ionic balance) < of 35 V
- Interchangeable, air-purged tungsten emitters
- Safe to the touch for users
- Optical function and error signals via LED status display
- The “Clean Me” function monitoring signals the need for cleaning
- Status signal for external function monitoring
- A wide variety of nozzle attachments facilitate the realisation of flexible applications
- Suitable for use in cleanrooms

Technical Data

	SIP
Version	ESD applications
cleanroom class	ISO 6
Working width	100 mm at a working distance of 200 mm
Working distance (min. – max.)	20 – 200 mm
Residual charge (offset voltage)	< 35 V
Operating voltage	24 V (DC)
Current consumption (max.)	100 mA
Operating air pressure for ionisation (min. – max.)	0.2 – 4 bar
Type of compressed air connection for the ionisation system	Ø 6 mm
Ambient temperature (min. – max.)	0 – 55 °C
Weight	0.082 kg
Conveying direction (uni-/bi-/multidirectional)	multidirectional
Ingress protection	IP52

Technical Drawings

SMART ION PRECISION



Air Consumption

Model	Working width	NI/min at operating pressure					
		0.2 bar	0.5 bar	1.0 bar	1.5 bar	2.0 bar	3.0 bar
SIP with NOZ-01	0 – 300 mm	25	44	70	92	115	157
SIP-INT with NOZ-02-0XXX	0 – 300 mm	-	-	43	56	68	93
SIP-INT with NOZ-02W-0XXX	0 – 300 mm	-	-	43	56	68	93



TECHNOLOGY

PRECISION

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