

Digital Sensor

MODEL 5200-SR

The Sensor Model 5200-SR operates with the Digital AeroBar Model 5225 and Interface Module Model IM6T to create a complete ionization system. The Digital AeroBar Model 5225 system is the most sophisticated ionization system available, with parameters that are adjustable to be as detailed and customized as you need. The Sensor enhances the system by monitoring ionization performance in closed environments and automatically adjusting ionization output based on the data. Closed loop control meets the needs of today's tools for 45 and 65 nm processes.



The Model 5200-SR Sensor is the only product of its kind to create this closed-loop ionization system. Wafers are always safe from static because ionization performance is constantly monitored. Tools calibrated to compliance with industry guidelines, such as SEMI E78, stay within the target. Ionizers perform in top condition because Sensor feedback indicates when preventative maintenance (PM) is necessary.

Features and Benefits

- Closed-loop control
- Provides constant ionization performance management despite changing conditions, ensuring better uniformity in wafer processing environments
- Small footprint
- Fits into limited tool environment spaces
- 24 VDC or 24 VAC input
- Connect directly to your process equipment's power source
- Built for any mounting position
- Accommodates almost all tool configurations
- Setup and control is performed from IonMonitor along with AeroBars
- Intuitive and easy to use IonMonitor GUI is a one-stop control interface that saves time



Specifications

Digital Sensor Model 5200-SR	
Input voltage	24 VAC, 60 Hz, via RS-485 from the IM6T Interface Module
Product compatibility	<ul style="list-style-type: none"> • IM6T version 3.0 and above • AeroBar Model 5225 • IonMonitor software version 3.0 and above
Cleanroom compatibility	ISO Class 1
Indicators	Green power LED, yellow communication LED
Mounting	Two M3 threaded holes on bottom, 25 mm apart (horizontally and vertically). Mounting hardware required (not supplied by Ion)
Sensor readings	Charge balance Minimum and maximum voltage peaks
EMI	Below background level
Material	304 Stainless steel
Dimensions	0.96H x 2.5W x 2.36L in. (2.44H x 6.3W x 6.0L cm)
Weight	0.35 lb (160g)
Warranty	2-year limited warranty
Certifications	  (both pending)
IonMonitor requirements	Microsoft Windows 2000/XP, minimum screen size of 1024 x 768, available Ethernet port and IP address or RS-232 port

Industry-first Software Integration

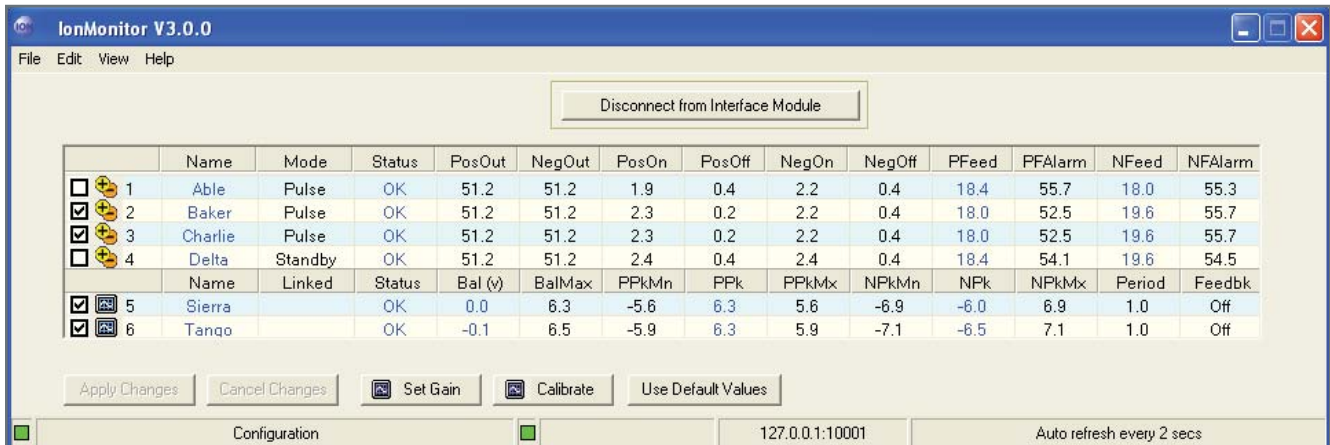
IonMonitor is Ion's unique monitoring software that runs on the tool controller to remotely set and control ionization using an easy and intuitive user interface.



Sensor control is now seamlessly part of the IonMonitor interface. Sensors are setup, linked to AeroBars, and set with any limits needed alongside AeroBar operation. Sensors can be set to alarms at user-specified thresholds or under specified operating conditions.

The IonMonitor software can be customized to integrate into any process tool controller using the software developer's kit (SDK). IonMonitor's SDK consists of open-source sample applications and pre-compiled routines.

Both the Sensor and the IonMonitor software are the only ionization control tools available of their kind. Ion developed these time-saving tools in response to advancements of tool technology and requirements. By providing precise and instant feedback on conditions, sensitive wafers and devices are continuously protected from harmful static.



The Sensor can be controlled by IonMonitor, the world's only integrated ionization control software package.

Ordering Information

91-5200-SR-V1.X	Digital Sensor
91-5225U-XX	Digital AeroBar in -22, -28, -36, -44, -56, -64, -76, -84 inch nominal bar lengths
91-5200-IM6T-VX.0	Interface Module Model IM6T
33-1700-15	RJ-11 cable between IM6T and sensor



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