

Inline Particle Sensor™ (IPS)



○ 24/7 detection of small particles in gas and vacuum lines.

Based on our WaferSense® Airborne Particle Sensor™ technology, IPS utilizes a high power blue laser to quickly monitor, identify and enable troubleshooting of particles down to 0.1µm within gas and vacuum lines in semiconductor process equipment.

Speed equipment qualification with real-time 24/7 monitoring.

- Collect and display particle data using IPS and new CyberSpectrum™ software for real-time equipment diagnostics.
- Compare past and present data as well as one tool to another easier and faster with CyberSpectrum.
- See the effect of cleanings, adjustments and repairs in real time. Save time by swiftly locating contamination sources.

Shorten equipment maintenance cycles with inline particle sensing.

- Detect particles in real-time and correlate measurements with tool events.
- Develop a baseline performance for tool and process.
- Simplify maintenance cycles by selectively servicing portions of a tool causing particle generation.

Lower equipment expenses with objective and reproducible data.

- Receive early warning for impending equipment failures and optimize your preventative maintenance plans.

Semiconductor fabs and OEMs worldwide value the accuracy, precision and versatility of CyberOptics semiconductor measurement devices. The most efficient and effective measurement devices for tool optimization, stabilization and standardization.



Save Time. Save Expense. Improve Yields.

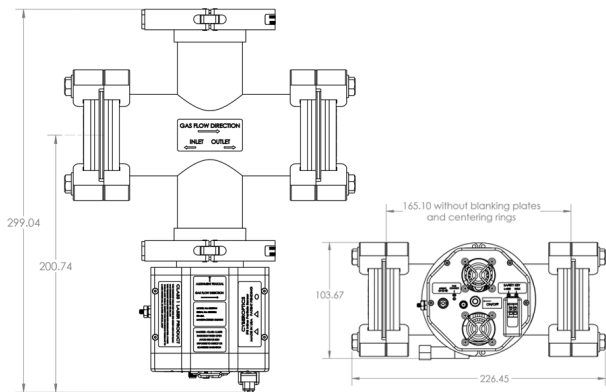
Features

Mechanical Interface	ISO-63 flange (other fittings available)
Easy-to-use software	CyberSpectrum software included. CyberSpectrum: Displays real-time numeric and visual feedback, cumulative or differential counting modes and particle frequency. Review functionality integrated; replays log file data for review and analysis
Highly accurate	Measures particles greater than 0.1 µm Less than 5 false counts per hour
Vacuum Exposed Materials	Aluminum, Glass, Viton O-Rings, Stainless steel hardware
Vacuum Integrity	Less than 10 ⁻⁶ atm-l/sec leak rate
Operating Pressure	< 10 ⁻⁶ to 250 Torr*
Operating Temperature	15 deg C to 45 deg C
Operating Humidity	20-90% RH, non-condensing
Laser	Certified to Laser Class 1
Input Voltage	90-264 VAC
IPS Link	Bluetooth, Class 1, 2.4GHz
Operating Systems	Windows 7, 8, 10
Product Components	Sensor head, stainless cross fitting, clamps, power supply, Bluetooth communications link module and application software

Ships with blank flanges on vacuum ports. Consult factory for installation instructions. PN: 8027544

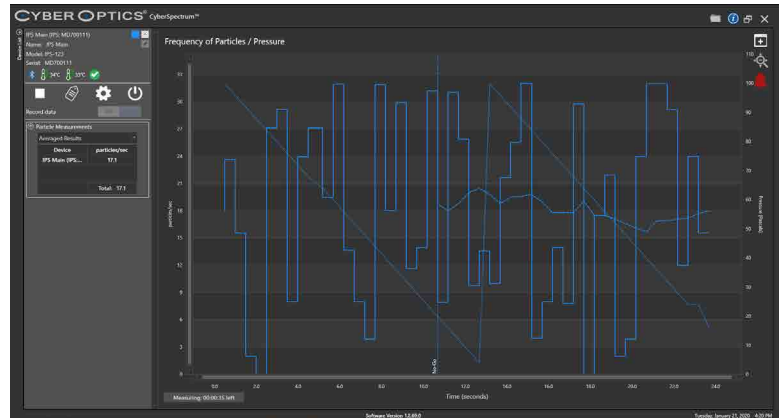
*Consult factory for higher atmospheric pressure operations

Dimensions



Standard IPS with ISO63 flange connections. Uses MDC Vacuum 825042 cross fitting. Shown with shipping blanks installed.

CyberSpectrum™



Real-time data.



Contact CyberOptics today for your complimentary tool demonstration

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