



Save Time



Save Expense



Improve Yields

Semiconductor fabs and OEMs worldwide value the accuracy, precision and versatility of the ReticleSense APSRQ – The most efficient and effective wireless measurement device for airborne particles.



RS

Large Particle Capability

ReticleSense®

Airborne Particle Sensor™ Quartz (APSRQ)

Metrology Sensors

Improve equipment set-up and long term yields by wirelessly monitoring airborne particles in real-time.

Quickly monitors, identifies and enables troubleshooting of airborne particles down to 0.14um within semiconductor process equipment and automated material handling systems.

Ideal for use in FAB scanners and steppers that read barcodes and alignment in transmission.

www.nordson.com/TestInspect



Speed Equipment Qualification

With wireless measurements.

- Collect and display particle data wirelessly using the APSRQ and CyberSpectrum™ software for real-time equipment diagnostics.
- Compare past and present as well as one tool to another easier and faster without opening an additional application, now with ParticleReview™ functionality integrated with CyberSpectrum.
- Save time by swiftly locating contamination sources with the APSRQ data and see the effect of cleanings, adjustments and repairs in real time.

Shorten Maintenance Cycles

Shorten equipment maintenance cycles with reticle-like form factor.

Specifications	
Form factor	Available in 6 inch Reticle form factor
Part numbers	8022290 (small particles) 8023905 (large particles)
Software	CyberSpectrum
Particle measurement	Measures particles greater than 0.14µm. Size channels: Reports particles in 0.1µm and 0.5µm bin sizes and larger particles in 2, 5, 10 and 30 µm bin sizes
Housing material	Quartz outer frame: Rear surface of quartz frame is an uninterrupted quartz surface
Weight	312g (± 15g)
Barcodes and alignment	Bar codes and alignment marks allow placement in most scanners and steppers
Airflow	0.07CFM (2L/min) @ 1 atmosphere
Operating pressure	0 to 1216 torr
Operating internal temperature	15 °C to 45 °C non-condensing
Laser power output and wavelength	APS devices are a Class 1 laser product, 405nm
Battery-duration	>1 hour per charge. Inductive wireless charging and handsfree operation.
Communication	Bluetooth, Class 1, 2.4 GHz
Operating system	Windows 10
Product components	Particle measurement device, charging clean case, carrying suitcase, USB communications link module and application software
Calibration	Factory recalibration recommended annually

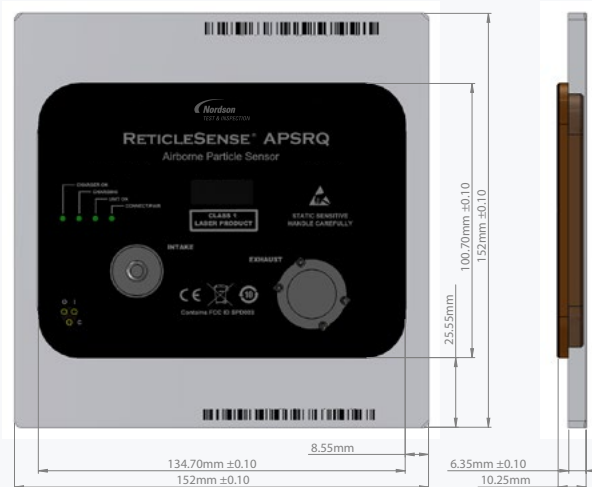
- Detect particles in real-time without opening the tool so you don't need to expose process areas to the environment.
- APSRQ goes where reticles go to find the place where particles contaminate reticles.
- Once the location of particles is identified, tools may be selectively cleaned. Open only the dirty portion, keep the clean areas clean.

Lower Equipment Expenses

With objective and reproducible data.

- Raise your first-pass monitor reticle success, reduce your qualification expense and increase availability with APSRQ.
- Receive early warning for impending equipment failures and optimize your preventative maintenance plans.
- Establish a baseline from known clean tool, then cycle APSRQ through a candidate tool before committing monitor reticles.

Dimensions



Real-time data.

For more information, speak with your Nordson representative or contact your Nordson regional office

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CyberSpectrum™ Software

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.