



Save Time



Save Expense



Improve Yields

Semiconductor fabs and OEMs worldwide value the accuracy, precision and versatility of the WaferSense AVS – The most efficient and effective wireless measurement device for vibration.



WS

WaferSense®

Auto Vibration System (AVS)

Metrology Sensors

Speed monitoring 3-axis acceleration and vibration, enabling yield improvements.

Records vibration data for easy comparison between past and present, as well as one tool to another, to reduce particles, maintenance time and cycle time.

Speed Equipment Qualification

With wireless measurements.

- Collect and display acceleration data wirelessly using the AVS and CyberSpectrum™ software for real-time equipment diagnostics.
- See the effects of adjustments in real time, speeding equipment alignment and setup.

Shorten Maintenance Cycles

Shorten equipment maintenance cycles with wafer-like accelerometer.

- Observe and optimize wafer, cassette, SMIF and FOUP motions using the AVS three-axis accelerometer.
- Detect wafer slides, slips, bumps, scrapes and rough handling in real-time with the vacuum compatible AVS, without opening the tool.
- Optimize motion parameters once the location or absence of wafer damage is identified.

Specifications	
Form factor	Available in 200mm and 300mm
Part numbers	AVS200C (200mm) and AVS300C (300mm)
Software	CyberSpectrum
Accuracy	Reports accelerations in three directions; x,y and z and RMS display allows quick, objective measurements. Resolution: ± 0.01 G
Housing material	Carbon fiber composite
Weight	150 g (200mm), 240 g (300mm)
Operating range	± 2 G
Operating pressure	$<10^{-6}$ to 760 torr
Operating temperature	20 to 70 °C
Battery-duration	>4 hrs. per charge, 8 hrs. typical
Communication	Bluetooth, 2.4 GHz
Operating system	Windows 10
Product components	Vibration measurement device, charging clean case, carrying suitcase, USB communications link module and application software
Calibration	Factory recalibration recommended annually

Lower Equipment Expenses

With objective and reproducible data.

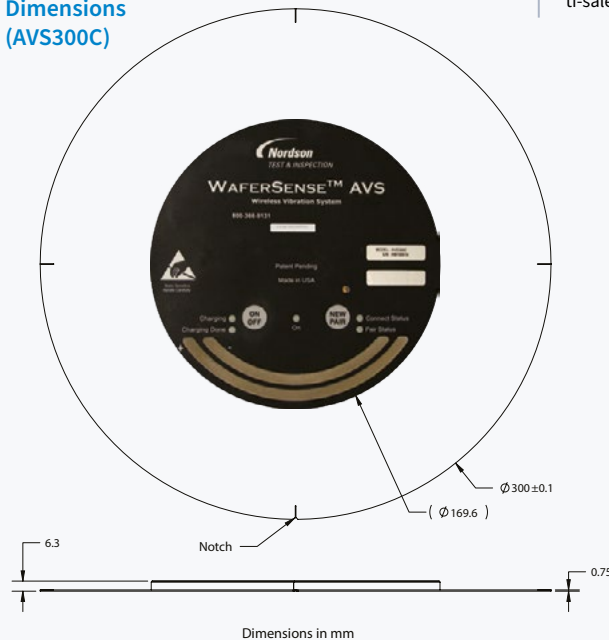
- Establish a baseline from a known clean tool, then cycle the AVS through like a dummy wafer to verify that baseline operation continues.
- Receive early warning for impending equipment failures and optimize your preventative maintenance plans.

Optimize Productivity

Optimize equipment productivity and yield by maximizing acceleration and minimizing vibration.

- Optimized motion profiles and trajectories minimize cycle times and smooth, vibration free handling minimizes particle adders.

Dimensions (AVS300C)



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 visual feedback. Digital readout allows more precise adjustment.

Review functionality integrated; replays log file data for review and analysis.