

# WaferSense® Auto Multi Sensor™ (AMS)

AMS

- **Speed vibration, leveling and humidity measurements with all-in-one measurement device. Improve yields.**



Leveling

+



Vibration

+



Humidity



## **Speed equipment qualification with wireless measurements**

- Collect and display acceleration, vibration, leveling and humidity data.
- Monitor humidity in wafer environments.
- Use the Auto Multi Sensor with MultiView™ and MultiReview™ software for real-time equipment diagnostics.
- See the effects of adjustments in real-time, speeding equipment alignment and set-up.

## **Shorten equipment maintenance cycles with thin and lightweight wafer-like form factor.**

- Thinner 4.5mm form factor provides access to more chambers.
- Operates at higher temperatures.
- Keep the process areas unexposed to the fab environment with vacuum compatible AMS.

## **Lower equipment maintenance expenses and enhance process uniformity with objective and reproducible data.**

- Take the human element out of adjusting your equipment with objective measurements for multiple applications in one.
- Make the right adjustments time after time.
- 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 the WaferSense AMS - The most efficient and effective wireless measurement device for leveling, vibration and humidity.**



**Save Time. Save Expense. Improve Yields.**

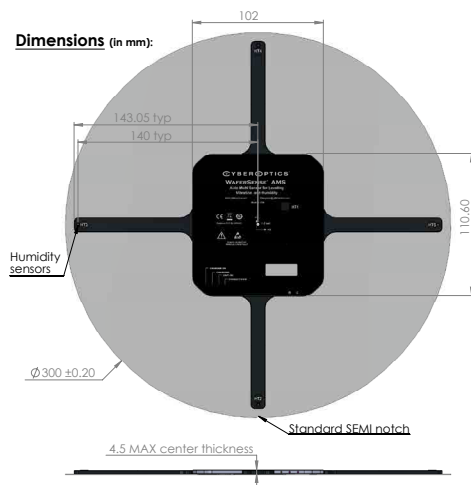
**CYBEROPTICS®**

# Features\*

<b>Wireless, wafer-shaped and battery-powered</b>	Available in 150mm, 200mm and 300mm
<b>Easy-to-use software</b>	MultiView and MultiReview software included MultiView: Displays real-time visual feedback. Digital readout allows more precise adjustment MultiReview: Replays log file data for review and analysis
<b>Highly accurate - leveling</b>	Horizontal accuracy : +/-0.03 deg within +/- 7 deg (150mm, 200 & 300mm) from absolute. Vertical accuracy: +/-0.05deg within +/-50 deg from vertical Horizontal resolution: +/-0.002deg within +/-14 deg. Vertical resolution: +/-0.01deg within +/- 50 deg
<b>Reports inclination in three dimensions</b>	x, y and vertical
<b>Highly accurate - vibration</b>	Reports accelerations in three directions: x, y, and z and RMS display allows quick, objective measurements. Operating range: +/- 2G.
<b>Relative measurements</b>	Zero position may be set to any reference plane within the system's operating range for easy relative measurements
<b>Humidity accuracy</b>	+/- 2% RH
<b>Humidity measurements</b>	1 Relative Humidity (RH) sensor (150mm and 200mm) 5 Relative Humidity (RH) sensors in one wafer (300mm)
<b>Durable housing</b>	Carbon fiber composite
<b>Lightweight</b>	140 grams (300mm)
<b>Thin</b>	4.5mm thick
<b>Operating pressure</b>	<10e-6 to 760 torr
<b>Operating temperature</b>	20 to 80 degrees C for extended periods. Up to 130 degrees C for shorter periods.
<b>Battery-operation</b>	>1 hour per charge. Inductive wireless charging and handsfree operation.
<b>WaferSense Link</b>	Bluetooth, 2.4 GHz, USB 1.1, dimensions 92mm x 58mm x 28mm
<b>Operating Systems</b>	Windows 7, XP and Vista
<b>Product components</b>	Auto Multi Sensor measurement device, charging clean box, carrying suitcase, USB communications link module and application software
<b>Calibration</b>	Factory recalibration recommended annually

\*Preliminary specifications subject to change

## Dimensions (AMS 300C)



Contact CyberOptics today for your complimentary on-tool demonstration  
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