

ReticleSense® Auto Multi Sensor™ (AMSR)

AMSR

○ **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 reticle 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 reticle-like form factor.

- 6" reticle sensor travels anywhere a reticle goes.
- Keep the process areas unexposed to the fab environment with vacuum compatible AMSR.

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 ReticleSense AMS - The most efficient and effective wireless measurement device for leveling, vibration and humidity.



Save Time. Save Expense. Improve Yields.

CYBEROPTICS®

Features*

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|---|---|
| Wireless, reticle-shaped and battery-powered | Available in 6" reticle shaped form factor |
| Easy-to-use software | 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 |
| Highly accurate - leveling | Horizontal accuracy : +/-0.03 deg within +/- 7 deg 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 |
| Reports inclination in three dimensions | x, y and vertical |
| Highly accurate - vibration | Reports accelerations in three directions: x, y, and z and RMS display allows quick, objective measurements. Operating range: +/- 2G. |
| Relative measurements | Zero position may be set to any reference plane within the system's operating range for easy relative measurements |
| Humidity accuracy | +/- 2% RH |
| Humidity measurements | 1 Relative Humidity (RH) sensor |
| Housing | Reticle quartz housing compatible with most all mask equipment and scanners. |
| Lightweight | 340g (+/- 15g) |
| Thickness | 6.35mm; standard 6" reticle format |
| Operating pressure | <10e-6 to 760 torr |
| Operating temperature | 20 to 80 degrees C for extended periods. Up to 130 degrees C for shorter periods. |
| Battery-operation | >1 hour per charge. Inductive wireless charging and handsfree operation. |
| WaferSense Link | Bluetooth, 2.4 GHz, USB 1.1, dimensions 92mm x 58mm x 28mm |
| Operating Systems | Windows 7, XP and Vista |
| Product components | Auto Multi Sensor measurement device, charging clean box, carrying suitcase, USB communications link module and application software |
| Calibration | Factory recalibration recommended annually |

*Preliminary specifications subject to change



Contact CyberOptics today for your complimentary on-tool demonstration
+1 800.366.9131 or +1 763.542.5000 | CSsales@cyberoptics.com | www.cyberoptics.com

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