

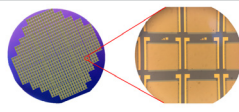


# KOREA SENSOR LAB

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major business	Research and Development Service		

Korea Sensor Lab is KOLAS accredited testing laboratory for high-tech system semiconductor and sensors. Korea sensor Lab provides the unrivalled test and analysis services for the low frequency noise and wafer level semiconductor device reliability. In particular, Korea Sensor Lab is Korea's only laboratory accredited by KOLAS for wafer level reliability testing for semiconductor devices. Korea Sensor Lab is developing high-tech gas sensor, composite sensor and pH sensor with original technology.

## Products

 <b>KOLAS</b> 국제공인시험기관(KT614) KOLAS accreditation certificate	<p><b>Use</b> Test and analysis service for semiconductor and sensor</p> <p><b>Description</b> KOLAS test reports are recognized in 103 countries worldwide according to the 'One Standard, One Test, Accepted Everywhere' scheme High quality report in the form of small thesis</p>
 GOODSEN (World's first development)	<p><b>Use</b> High-performance equipment for test of low-frequency noise of sensors and semiconductor devices</p> <p><b>Description</b> 5 analyses(Voltage-current characteristics, 1/f noise, RTS noise, reliability analysis, time to failure) can be performed using GOODSEN</p>
 반도체 공정으로 센서 제작 제작된 센서 사진 Development of High-Tech Sensor(Gas Sensor, pH Sensor, etc)	<p><b>Use</b> Ultra-small and ultra-low-power gas sensor suitable for IoT application, Ultra-small ISFET type pH sensor for human body</p> <p><b>Description</b> High quality chalcogenide MoS and WS 2D materials for battery operable sensors Synthesis technology for uniform 2D material on 4-inch wafer</p>

## Technical Capacity

### » Reliability test and analysis of sensors and semiconductor devices

It is the only institution in Korea which provides wafer level reliability and 1/f noise test for advanced sensors and semiconductor devices. The reliability technology of the Korea Sensor Lab enhances the performance of semiconductors and sensors

### » TEG service technology for AI Semiconductor

High-tech TEG service enables the development and integration of advanced AI semiconductor with the accurate test and analysis of neuromorphic semiconductor devices which are formed on the CMOS wafers

### » Low frequency noise(1/f noise) measurement technology

The lower the 1/f noise within the sensor, the better the performance. Korea Sensor Lab is conducting accurate test analysis and improvement of low frequency noise

### » Development technology of high-tech sensor

We have the technology for advanced low power and ultra small gas sensor, semiconductor type pH sensor and GOODSEN equipment. The ultra-small and ultra-low-power gas sensor are suitable for IoT application and ultra-small ISFET type pH sensor for human body