

Sensors, Inc.



CE-CERT Validates Real-World Ammonia Emissions Measurement

A study conducted by the **College of Engineering – Center for Environmental Research and Technology (CE-CERT)** at the University of California, Riverside, has shed light on the growing significance of ammonia (NH₃) emissions from light-duty vehicles. The research, “Real-World Study of Ammonia Emissions from Light-Duty Vehicles” (May 2025), provides important insights into how ammonia behaves under real-world driving conditions and how it contributes to overall air quality and vehicle aftertreatment performance.

In this groundbreaking work, researchers selected the **SEMTECH[®] NH₃ analyzer from Sensors, Inc.** to perform their ammonia measurements.

“The analyzer is compact enough to be operated from inside the vehicle, allowing for high-resolution, in-use measurements without affecting the vehicle’s performance.”
– CE-CERT

The analyzer allowed CE-CERT to gather accurate and dependable data across a wide range of vehicles and conditions. This study confirms that reliable ammonia

detection is critical for evaluating emissions systems and developing cleaner technologies for the future.

Proven Technology, Proven Results

The **SEMTECH[®] NH₃ analyzer** uses advanced laser-based (TDLS) technology to measure ammonia directly in raw exhaust, providing real-world accuracy that traditional lab methods cannot match. It delivers **fast response times**, **minimal NH₃ loss**, and **exceptional repeatability** across all test environments.

Whether your testing is for certification, research, or development, the SEMTECH[®] NH₃ gives you the confidence of validated performance backed by independent study results.

Flexible Integration for Any Testing Setup

The SEMTECH[®] NH₃ can be used as part of a **Portable Emissions Measurement System (PEMS)** or as a

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standalone analyzer, offering unmatched flexibility for both laboratory and field applications. Whatever your emissions testing needs, SEMTECH® delivers precision you can trust.

Discover the Technology Trusted by CE-CERT

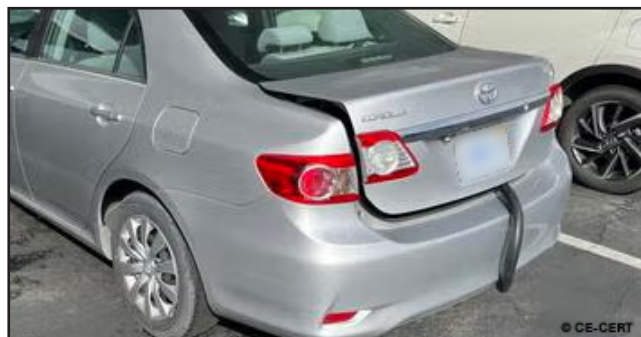
Join the world's leading researchers and engineers who rely on **Sensors, Inc.** for high-performance measurement solutions. See why the **SEMTECH® NH₃** is the preferred choice for accurate, real-world ammonia emissions testing.

For more information reach out to us at:

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Source: [CE-CERT](#)



Sensors on the Move



Sensors regularly supports emissions measurement activities from around the globe. By participating in various trade shows to attending or hosting technology, product, and user conferences that attract regulatory agencies and customers alike, there is a wide array of opportunities to meet our team.

Be sure to look for our products and people at these future events:

PEMS

CRC - Real World Emissions Workshop

March 8 - 11, 2026
San Diego, California, USA

UC Riverside - International OSAR Conference

March 12 - 13, 2026
Riverside, California, USA

Automotive Testing Expo Korea

March 18 - 20, 2026
Gyeonggi-do, Korea

SEMTECH GLOBAL NEWS

Sensors, Inc. was founded in 1969 and has gone on to become an innovative leader in the supply of gas analysis and particle measurement instrumentation. Powered by employee-owners, the company has built a reputation for engineering excellence, robust manufacturing, and strong customer support.

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