

AIRLAB Microsensors Challenge 2025-2026

inBiot MICA wins the three main indoor air categories.

International benchmark. By the official Paris air quality agency.

AWARDED BY



INDOOR AIR CATEGORIES



Piloting

Controlling building systems



Monitoring

Compliance checks in schools



Awareness

Informing occupants and users



MADE BY



CERTIFICATIONS



RESET Air
Accredited
monitor.



An independent, third-party evaluation.

Why it matters: the data behind your ventilation and certification decisions, checked against reference instruments.

Reference-grade analyzers

Every device benchmarked against reference analyzers

Same conditions

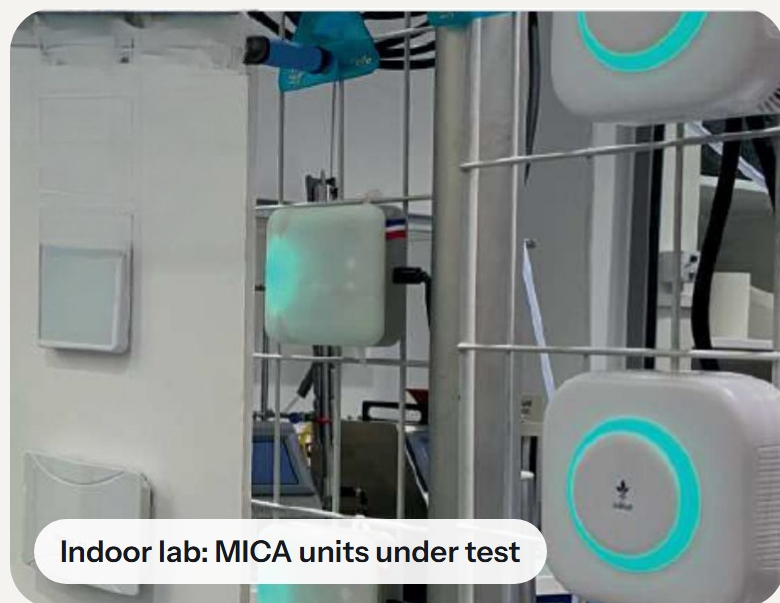
All devices tested at the same time, under the same protocol

Public results

Published device by device on Airparif's results platform

Challenge partners

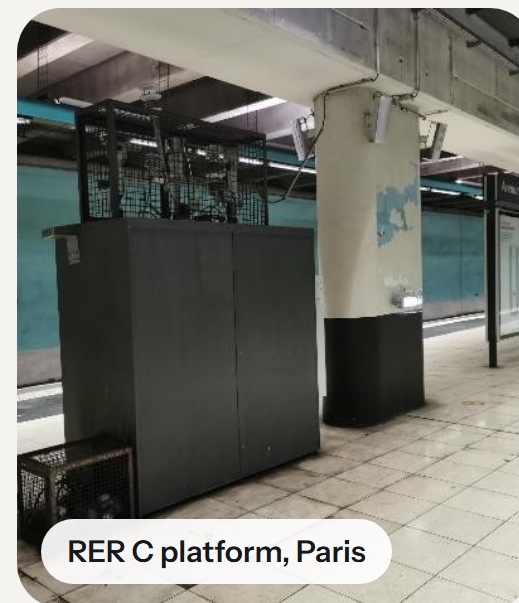




Indoor lab: MICA units under test



Reference analyzers



RER C platform, Paris

47 devices tested in the same lab, over the same period.

47

device models in total. 12, from 9 manufacturers, in the indoor lab

4 months

Oct 2025 to Feb 2026, with cooking, smoke and cleaning products

3 units

per model, checked against each other

Final score: weighted average of five criteria

Accuracy

Utility

Usability

Environmental footprint

Cost

First in three indoor categories. Second in underground stations.

“The best-performing system across all indoor non-specific categories.”

AIRLAB Challenge jury, MICA assessment



Awareness

1st



Piloting

1st



Monitoring

1st



Underground stations

2nd

Three MICA units, compared with the reference analyzer and with each other.

CO₂ against the Thermo 410i reference analyzer · 8 to 14 December 2025



Source: raw data from the AIRLAB Microsensors Challenge 2025 (Airparif), final package 07/2026 · inBiot analysis

Agreement between the three units over the full campaign (R^2 , where 1 means identical readings)

CO₂

0.986–0.992

PM_{2.5}

0.997–0.999

PM₁₀

0.996–0.999

TVOC

0.992–0.997

In the organizer's own words.



It showed very good accuracy for PM2.5 and PM10 in both indoor environments, while its CO₂ accuracy was very good in indoor non-specific applications (...). It combines excellent utility in indoor non-specific applications with good utility in [underground rail stations]. (...) Its excellent environmental footprint and cost performance are strong advantages.

AIRLAB Challenge jury · MICA assessment

The **Piloting** category award (IA-P) highlights how well inBiot MICA works with the main building systems.

“Controlling, managing and regulating indoor air quality in buildings or installations using a multi-parameter sensor, with emphasis on continuous availability and interoperability with building-management or user interfaces.”

AIRLAB definition of the piloting category (IA-P)

Connectivity



PoE

MQTT

REST API

For BMS and HVAC automation, cloud services and third-party platforms.

Integrations



4.60 / 5

1st in piloting, the highest score of any indoor device in this edition. In this category, AIRLAB gives utility, including data access and interoperability, the highest weight.

Evaluated by AIRLAB. Built for the standards and systems buildings already use.

Independently
evaluated by



AIRLAB is run by Airparif, the official
air quality agency for the Paris region

Supports certification
with



Integrates with



Trusted by



The full story behind the results.

How the tests were run, what each score means, and what it tells you about your building.

Link in the first comment

Read the article



SOURCES AND MORE

airlab.solutions

airparif.shinyapps.io

inbiotair.com/case-studies Projects using MICA today

