



Forum for Approaches to Air Pollution and Climate Action

Introduction of **SIBATA** Products

Introduction of technologies and products by environmental-related companies

SIBATA SCIENTIFIC TECHNOLOGY LTD.

2026/02/17 Overseas Sales Department Kentaro Togo

1. Company Introduction



- **Funded in 1921** as a manufacturer of Laboratory Glassware
- Current main business:
 - ① **Environmental Measurement Equipment**
 - ② Scientific Equipment
 - ③ Engineering Business
 - ④ Laboratory Glassware

1. Company Introduction



- Developed **the world's first light scattering dust meter** , together with JNIOOSH, in 1962.
- Various commercialization:
 - ① Work Environment Measurement
 - ② Building Control Measurement
 - ③ Dust mask performance testing equipment
 - ④ Mask performance tester for nuclear power plants

Holds the **top market share** in Japan

1. Company Introduction



- Suspended Particulate Matter for ambient monitoring.
- Installed at measurement stations throughout Japan.



- Met One Instruments' PM2.5 monitor, the First in the world to receive U.S.EPA approval, was developed through technology transfer from SIBATA.

2. Development of LCS



- Newly developed LCS devices.
- Chicco-iino series
- PM2.5, CO, CO2, Wind, Pa, WBGT



3. What made us to develop LCS?



- Number of PM2.5 monitor : about 1,100 sites
- Insufficient numbers for micro-level analysis
- An automatic measuring device for PM2.5 that has passed equivalence assessment by Japan's Ministry of the Environment costs several million JPY.

Need reasonably priced and accurate monitor

4. PM2.5 Monitor, PS-3



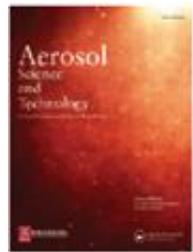
- **PM2.5 Monitor PS-3**

PM2.5 : 10 to 600 µg/m³
(±20% of FS)

Temp. : -10 to 100 degrees C

Humid. : 10 to 95 %rh

- Equipped with a PM2.5 sensor developed **by**
Prof. Matsumi of the Nagoya Univ.
and
Prof. Nakayama of the Nagasaki Univ.



Aerosol Science and Technology

ISSN: 0278-6826 (Print) 1521-7388 (Online) Journal homepage: <https://www.tandfonline.com/loi/uast20>

Development and evaluation of a palm-sized optical PM_{2.5} sensor

Tomoki Nakayama, Yutaka Matsumi, Keiko Kawahito & Yoshifumi Watabe

To cite this article: Tomoki Nakayama, Yutaka Matsumi, Keiko Kawahito & Yoshifumi Watabe (2018) Development and evaluation of a palm-sized optical PM_{2.5} sensor, Aerosol Science and Technology, 52:1, 2-12, DOI: [10.1080/02786826.2017.1375078](https://doi.org/10.1080/02786826.2017.1375078)

To link to this article: <https://doi.org/10.1080/02786826.2017.1375078>

- The sensor, backed by academic evidence, allows for clear differentiation from sensors that are simply low-cost.

5. Usage examples of LCS-PM2.5 Monitors



2020 : P-sensor



2022 : PS-1

- Over 1,000 units sold
 - ① Real time monitoring in Asian and African countries
 - ② Epidemiological studies
 - ③ PM2.5-related research in various field in academia
 - ④ Ambient environment research at national and local environmental research institutes
 - ⑤ Research into IAQ at universities and private research institutes (such as home builders)
 - ⑥ And more...

6. Future Outlook



- We began developing the LCS monitors such as PM2.5, CO, CO2, O3, NOx, and more.
- Still cooperating with specialized professors in Japan such as Prof. Matsumi (Nagoya Univ.) and Prof. Nakayama (Nagasaki Univ.).

