



Swisens Atomizer

The new way of real-time
Bioaerosol Monitoring



Detect what's in the air

Swisens Atomizer

The new type of effective particle atomization

SwisensAtomizer is a compact particle atomizer for solid and dry particle samples such as pollen, mineral dust and other materials. The SwisensAtomizer generates stable and controllable particle concentrations for measurements, calibrations and laboratory tests.

- Reproducible concentration
- Variable use
- Compact design

Special features of the SwisensAtomizer

The SwisensAtomizer is ideally suited for the Swisens-Poleno Jupiter, but can also be used for other atomization applications. It enables a particularly clean sample flow through the hood with integrated HAPA filter.

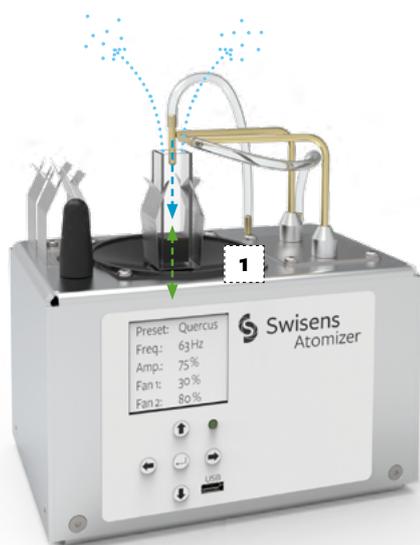
- Battery operated
- Remote control with USB cable possible
- Adjustable parameters and settings
- Antistatic measures
- Transport case included

Features of Swisens technology

Holographic images: Precise capture of airborne particles for accurate identification and analysis.

Artificial Intelligence: Fast, accurate identification of particles without human intervention.

Open source software: Full control over data, customization capabilities, and expertise of the open source community.



Flow of Particles

1. Membrane
- Atomized aerosol particles
 - Slight airflow into cuvette
 - Movement of membrane with cuvette with adjustable amplitude and frequency

Components SwisensAtomizer

1. HEPA filter inlet
2. Cover
3. Cuvette clamp
4. Illumination LEDs
5. Bluetooth antenna
6. e-ink display
7. Controls
8. Micro USB connection



SwisensAtomizer

The SwisensAtomizer hardware extension enables direct atomization and measurement of dry particle samples. The HEPA filter plug at the air outlet of the measuring system filters the measured air volume.

Various components can be set:

- Vibration frequency
- Vibration amplitude
- Air flow to the cuvette

Particle atomization

The SwisensAtomizer is basically suitable for all dry dusts and particle sizes in the micrometre range. The following particles have been successfully tested to date:

- Fresh and dry pollen
- Fungal spores
- Mineral dust
- Microplastics
- Dry PSL



Left: SwisensAtomizer for indoor use with SwisensPoleno Jupiter

Right: SwisensAtomizer with SwisensPoleno Mars for particle atomization for outdoor use

Specifications

Operating time: ~ 6h

Frequency: 10-200 Hz

Weighth: 1.6 kg

Power: rechargeable battery via USB

Interfaces: e-ink Display (Usable in daylight)
with interaces, USB

Dimensions: 155 x 150 x 260 mm³ (W x D x H)

You have individual requirements?

Our team is looking forward to hearing from you.

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