MCP SERVER | NO CODE | CLOUD HOSTED

BreezoMeter Air Quality & Pollen MCP for AI Agents

Real-time monitoring of pollutants and allergy risks anywhere on Earth

BreezoMeter Air Quality & Pollen delivers hyper-local environmental intelligence directly into your AI agent. Get real-time readings on the Air Quality Index (AQI), specific pollutants like PM2.5, and detailed pollen counts for trees, grass, and weeds anywhere in the world.

A+ Quality Score 100/100

air-quality | aqi | pollen | pollution | health | environment

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vinkius.com/mcp/breezometer-air-quality-pollen

SCAN TO VIEW

The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

> *The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*
>
> — Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

```
https://edge.vinkius.com/{token}/mcp
```

Claude · Cursor · VS Code · Windsurf · Grok · Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1) Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

BreezoMeter Air Quality & Pollen MCP

2 tools available
Cloud-hosted on Vinkius

This MCP gives your AI client access to comprehensive environmental data, letting it act as a dedicated air quality consultant. Your agent can check current AQI scores and pinpoint exactly which pollutants are causing issues—is it high PM2.5 or something else? It also tracks pollen levels from various plant types, helping users manage allergies before they even step outside.

Whether you're building an app for city planning or just want to plan a run, your agent provides actionable health advice based on the latest data for any coordinates globally. By connecting this MCP via Vinkius, you route environmental metrics and health warnings into natural conversation flow. You get real-time insights that move beyond simple readings; you get context—like knowing that even if the air quality is 'Good,' athletes should still take extra care because of high ozone levels.

Core Capabilities

01 — Check current air quality metrics

Retrieves the Air Quality Index (AQI) and specific pollutant concentrations for a given location.

02 — Monitor localized pollen counts

Gathers up-to-date pollen data across different types of plants, including trees, grasses, and weeds.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/breezometer-air-quality-pollen** — connect your AI agent in three steps.

01 Subscribe to the BreezoMeter MCP on Vinkius.

02 Input your unique BreezoMeter API Key into your preferred AI client.

03 Ask your agent a question about air quality or pollen levels, providing the location.

The bottom line is that you connect the credentials once and then just ask your AI client for environmental data whenever needed.

Built For

This MCP serves anyone whose job depends on understanding local conditions. It's essential for health tech developers, city planners, outdoor activity organizers, and anyone managing chronic allergies or respiratory issues.

Health & Wellness Coach

Uses the MCP to advise clients on safe times for exercise, adjusting workout plans based on real-time AQI and pollutant spikes.

Smart City Developer

Integrates environmental metrics into urban planning tools to monitor air quality trends across different neighborhoods.

Allergy Specialist

Manages patient risk profiles by tracking hyper-local pollen counts and advising on preventative measures for outdoor activity days.

What Changes When You Connect

01 Predict activity risk: Use the MCP to check current AQI scores, helping you plan outdoor activities when pollutant levels are safe.

02 Manage allergies better: The Pollen Tracking capability gives precise data on tree, grass, and weed counts, letting you avoid high-risk areas.

03 Get specific health advice: Your agent provides tailored recommendations for sensitive groups (like those with asthma) based on the retrieved environmental data.

04 Global coverage: You don't need to worry about location. The MCP pulls accurate environmental intelligence for any street-level coordinate worldwide.

05 Deep pollutant insight: Beyond just a score, you can identify dominant pollutants like PM2.5 or NO2 so your agent explains the actual source of concern.

Real-World Applications

Planning an outdoor work day in a city

An operations manager asks their agent, 'What's the air quality for site safety today?' The agent uses the MCP to retrieve real-time AQI and pollutant concentrations. It warns that while the overall score is moderate, high NO2 levels require workers wearing masks.

Advising a client on lung fitness

A wellness coach asks their agent about exercise safety in a park. The MCP provides the current AQI score and health recommendations specifically for individuals with respiratory conditions, adjusting the recommended workout intensity.

Developing a seasonal allergy tracker app

A health tech developer builds an app using this MCP to monitor pollen risk across multiple zip codes. The agent automatically checks specific tree and weed counts daily, alerting users when the risk crosses a certain threshold.

Patterns to Avoid

Assuming generic environmental data

✗ AVOID

Just running a general weather check that only mentions 'poor air quality' without specifying *why* or *where* it is happening.

✓ INSTEAD

Use the MCP to call `get_air_quality` for exact coordinates and identify the specific pollutant (e.g., PM2.5) causing the issue, giving actionable details instead of vague warnings.

Ignoring pollen seasonality

✗ AVOID

Running a general health check that assumes pollen risk is always low or stable throughout the year.

✓ INSTEAD

Use `get_pollen_levels` to track specific plant types (grass, tree) in real-time. This lets your agent warn users about seasonal spikes weeks in advance.

Relying on single data points

✗ AVOID

Only checking the overall AQI score and ignoring pollutant concentration or health recommendations.

✓ INSTEAD

Combine both tools: Use `get_air_quality` for the current metrics, then use `get_pollen_levels` to provide a complete picture of environmental risk factors.

The Right Fit

Use this MCP if your core product functionality depends on real-time, hyper-local environmental intelligence. Specifically, if you need to know not just that the air is dirty, but *why* it's dirty (PM2.5 vs. ozone) or if the risk comes from allergens (pollen). Don't use this if all you need is a general weather forecast; a standard API handles temperature and rain fine. If your only concern is whether a location has 'good air,' that might be enough for other tools, but if you need actionable health advice tied to specific pollutants or pollen types, this MCP is necessary.

BreezoMeter Air Quality & Pollen: Solving the Headache of Outdoor Pollution

Right now, figuring out if it's safe to run outside feels like guesswork. You check a general weather app that gives you a vague 'Air Quality Warning.' Then you look up pollutant data on another site just for PM2.5 levels. It’s tedious, forcing you to copy coordinates and manually cross-reference multiple confusing dashboards.

With this MCP, your agent pulls all the environmental intelligence into one conversation. You ask if it's safe to exercise in a specific park; the agent returns the AQI score, identifies the dominant pollutant, AND gives tailored health recommendations for sensitive groups—all instantly.

BreezoMeter Air Quality & Pollen: Precision Allergy Monitoring

Manually tracking allergy risk means keeping multiple calendars and looking up specific plant pollen seasons. You have to remember if it's tree season or grass season, making planning days difficult and frustrating.

The MCP handles that complexity for you. Instead of guessing, your agent checks the precise levels for trees, grasses, *and* weeds at a location, letting you plan your day with confidence based on actual environmental data.

BreezoMeter Air Quality & Pollen: 2 Tools for Environmental Monitoring

Use these tools to check current air quality metrics or gather detailed pollen levels for any location on Earth.

#	TOOL	DESCRIPTION
01	`get_air_quality`	Pulls the current Air Quality Index (AQI) and pollutant levels for any given location.
02	`get_pollen_levels`	Retrieves specific pollen data for trees, grasses, and weeds at a specified geographic coordinate.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U What's the air quality like near Central Park right now?

Environmental Report: Central Park

- **AQI Score:** 68 (Moderate)
- **Dominant Pollutant:** Ozone (O3) - High.
- **Health Advice:** Limit prolonged exertion today. Sensitive groups should plan for indoor activity instead.

Pollen Alert: Grass pollen is currently at a **Low** risk, but tree pollen levels are moderate. Take precautions.

U Should I take my kids hiking in Denver tomorrow?

Outdoor Safety Analysis for Denver

- **Forecast AQI:** Expected to be 55 (Good).
- **Pollutant Focus:** PM2.5 levels are projected to stay below safe thresholds.
- **Recommendation:** Hiking is recommended, but ensure your kids take breaks due to potential dehydration risk. Pollen risk remains low overall.

U Check the air quality and pollen for my office location.

Location: 123 Main St.

- **Current AQI:** 45 (Good).
- **Pollutants:** Minimal activity. No dominant pollutant of concern.
- **Pollen Report:** High risk detected for weed pollen types in this specific area. Keep allergy medication handy.

Frequently Asked Questions

01 **How does the BreezoMeter Air Quality & Pollen MCP help with pollution?**

It gives you more than just a number. The MCP identifies the exact pollutants, like PM2.5 or NO2, that are affecting the air, allowing your agent to give specific health advice instead of vague warnings.

02 **Can I use BreezoMeter Air Quality & Pollen for my allergy symptoms?**

Yes, absolutely. The MCP tracks pollen levels for different plant types—trees, grasses, and weeds—allowing you to manage seasonal allergies by avoiding high-risk areas.

03 **Is the data from BreezoMeter Air Quality & Pollen global?**

Yes. You can retrieve accurate environmental measurements for any street-level location worldwide, making it useful for international travel planning or multi-site operations.

04 **Does this MCP help me plan outdoor activities safely?**

It's perfect for that. By combining real-time AQI scores with pollutant data and health recommendations, your agent helps you adjust your plans—like moving a run indoors if the air quality drops.

05 **What kind of users benefit most from BreezoMeter Air Quality & Pollen?**

Anyone whose work involves field operations or public health planning benefits. Health coaches, city planners, and allergy specialists rely on this precise environmental intelligence.

Go Live in 60 Seconds

Get your connection token from **cloud.vinkius.com**, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add `"breezometer-air-quality-pollen": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → Add endpoint URL
ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

- Ask ChatGPT
- Ask Claude
- Ask Perplexity
- Ask Gemini
- Ask Grok

READY TO CONNECT

BreezoMeter Air Quality & Pollen is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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LICENSE & USAGE

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