

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Pet Leash Length Calculator MCP

Get precise measurements and safety checks for pet gear.

Pet Leash Length Calculator MCP handles the math for your pet accessory configurations. Your AI client uses this tool to sum up leash segments, find the longest piece in a set, and run safety checks to ensure your components meet physical requirements. It's a specialized utility for anyone managing pet equipment measurements through an AI agent.

A+ Quality Score 100/100

pet-safety

leash-calculation

measurement

pet-accessories

utility



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.

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.

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.

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

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

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.

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.

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.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot 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.

FinOps

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

Firewall & DLP

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

Agent Activity

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

Tool Health

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

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.

Pet Leash Length Calculator MCP

4 tools available

Cloud-hosted on Vinkius

If you're designing, organizing, or auditing pet equipment, you need accurate measurements without manual math. This MCP gives your AI client the ability to process leash component data instantly. Instead of you typing out sums or checking segment lengths yourself, you just hand the data to your agent. It can calculate the total length of multiple segments, identify which piece is the longest, and provide a full statistical breakdown of your inventory or specific leash setups. Most importantly, it includes a validation step to check if your leash components actually meet safety and physical requirements. It turns your AI into a specialized tool for pet gear management.

Core Capabilities

01 — Total Length Calculation

Your agent sums up multiple leash segments to find the total distance.

02 — Safety Validation

The AI checks if your component lengths meet necessary safety standards.

03 — Segment Identification

Your client finds the largest single piece within a list of measurements.

04 — Statistical Summaries

The agent provides an overview of your leash component data.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/pet-leash-length-calculator — connect your AI agent in three steps.

- 01 Connect the MCP to your client like Claude or Cursor via Vinkius.
- 02 Provide your leash segment data or component list to your AI agent.
- 03 Ask your agent to perform a specific task like calculating length or validating safety.
- 04 The agent calls the relevant tool and returns the result to you.

Connecting this MCP to your AI client gives your agent immediate access to specialized measurement tools.

Built For

This MCP is built for professionals managing pet product inventories or safety specifications.

Pet Product Designers

They hand off component lists to the AI to verify total lengths and safety compliance.

Inventory Managers

They use the agent to summarize leash segment data and find specific part sizes.

Safety Inspectors

They use the validation tool to ensure leash configurations meet physical requirements.

What Changes When You Connect

-
- 01 Eliminates manual math for leash segment totals.
 - 02 Automates safety checks for equipment components.
 - 03 Provides instant statistical summaries of leash data.
 - 04 Identifies outlier segments in a collection quickly.
-

Real-World Applications

Product Prototyping

Designers use the tool to calculate the total length of new leash designs based on segment inputs.

Safety Auditing

Inspectors run validation checks to see if a set of leash parts meets safety standards.

Inventory Organization

Managers get statistical summaries of their leash component stock through their AI client.

Component Sourcing

Users find the longest segment in a batch of parts to ensure it fits their specific needs.

Patterns to Avoid

Manual Math Errors

❌ AVOID

You try to manually add up twenty different leash segment lengths in a chat window and hope the AI doesn't hallucinate the sum.

✓ INSTEAD

Let the agent do the math for you by using ``calculate_total_leash_length`` to get an exact total instantly.

Skipping Safety Checks

❗ AVOID

You assume a new batch of leash parts is safe just because they look correct visually.

✓ INSTEAD

Run your component list through ``validate_leash_components`` to confirm they meet specific physical requirements.

Hunting for Outliers

❗ AVOID

You scroll through a massive spreadsheet of inventory to find the single longest leash segment in a shipment.

✓ INSTEAD

Use ``find_longest_leash_segment`` to pull that specific measurement out of the group immediately.

The Right Fit

Connect this MCP if you manage pet product inventories or design physical leash equipment. If you are just a casual pet owner looking for a single leash, you don't need this. The decision comes down to whether you need to process batches of component data rather than single items.

4 Specialized Tools for Pet Leash Data Management

These tools handle everything from basic length math to safety validation and statistical analysis of leash components.

#	TOOL	DESCRIPTION
01	validate_leash_components	This tool checks if your set of leash lengths meets specific safety and physical requirements. It's used to ensure your equipment is fit for purpose.
02	calculate_total_leash_length	This tool calculates the sum of all leash segments you provide. It's the quickest way to get a total length for complex leash setups.
03	find_longest_leash_segment	This tool identifies the single largest component in a collection of leash segments. Use it to spot the primary length in a group of parts.
04	get_leash_summary	This tool generates a high-level statistical overview of your leash components. It provides a quick look at the data through summaries.

See It in Action

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

U What is the total length of my leash segments: 2, 5, and 3 meters?



The total length of your leash segments is 10 meters.

U Which is the longest segment in my leash: 1.5, 4.2, and 2.8?



The longest segment is 4.2.

U Give me a summary of these leash lengths: 1, 2, 3, 4, 5.



The total length is 15, the average length is 3, and there are 5 segments.

Frequently Asked Questions

01 What can this MCP do with leash measurements?

It can calculate total lengths, find the longest segment, provide statistical summaries, and validate safety requirements for leash components.

02 Which AI clients can use this MCP?

You can use this MCP with any compatible client, including Claude, Cursor, Windsurf, and VS Code.

03 How does the safety validation work?

The `validate_leash_components` tool checks if your provided leash lengths meet specific safety and physical requirements.

04 Do I need to host the MCP myself?

No, Vinkius hosts and manages the MCP for you, so it is ready to use immediately after you connect your client.

05 Can I get a summary of all my leash parts?

Yes, the `get_leash_summary` tool provides a high-level statistical overview of any collection of leash components you provide.

06 How do I calculate the total length of my leash segments?

You can use the `calculate_total_leash_length` tool by providing an array of the individual segment lengths.

07 Can I check if my leash setup is safe?

Yes, the `validate_leash_components` tool checks if all provided lengths are positive and valid for use.

08 What kind of summary can I get for my leash components?

The `get_leash_summary` tool provides the total length, the average length of segments, and the total count of segments.

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 <code>"pet-leash-length-calculator": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → 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

Pet Leash Length Calculator 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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DOCUMENT INFORMATION

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This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit vinkius.com/en/ai-agent-connect/pet-leash-length-calculator.