

# SensorPulse – User Manual

Complete step-by-step guide for absolute beginners

Version 1.11.0 · Windows 10/11 (64-bit)

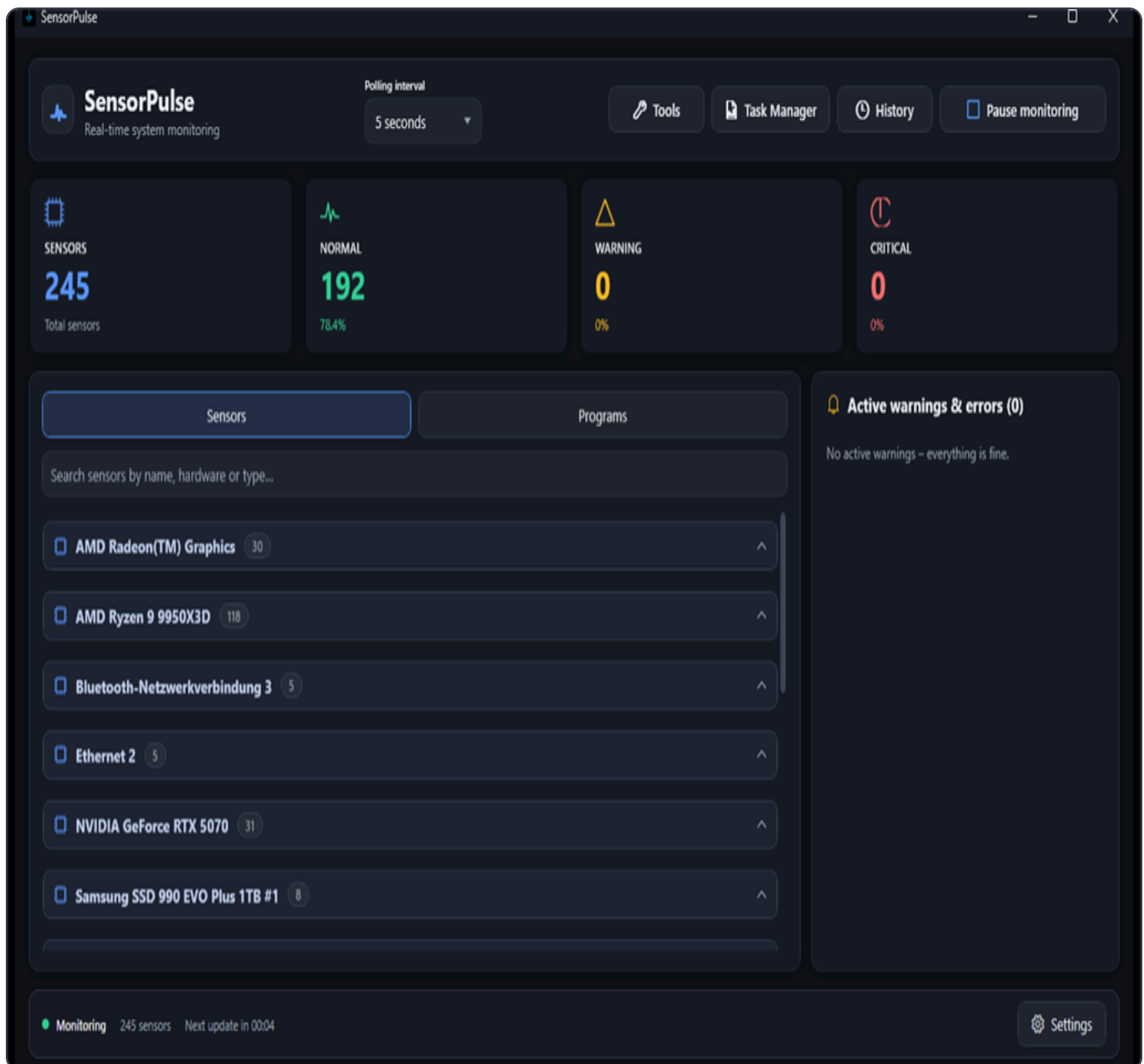
New in **1.11**: CPU sustained FFT load and GPU 3D stress with transparent stats overlay; update notifications and “Check for updates” for licensed users; tray reminders during trial; withdrawal consent before PayPal; group pause requires full license; download page with online/offline setup and archive (no public ZIP); SQL admin **protected against manipulation** (SELECT/INSERT/UPDATE/TRUNCATE allowed, schema commands blocked); updated F1 help and manuals.

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# 1. Introduction – What is SensorPulse?

SensorPulse is a **complete hardware monitoring suite for Windows 10 and 11**. It reads sensor data from your PC – CPU temperature, GPU load, fan speed, disk usage, network adapters and more – and displays everything in clear tiles, charts and tables.



The main window: live sensors, sparklines and hardware grouping.

## What SensorPulse can do

- Live dashboard with colored tiles, sparklines, favourites bar at top and hardware grouping
- History charts with zoom and detailed reading explanations

- Custom alarm thresholds, alert sidebar and alert history
- Tools Hub with fan control, GPU info, benchmark, export and more
- Built-in Task Manager with process actions and performance charts
- Transparent game overlay for CPU/GPU/FPS while gaming
- Program launcher for installed apps and games
- SQL Admin and automation (full license, protected against manipulation)

## Privacy – everything local, no cloud

SensorPulse runs **entirely on your PC**. There are no user accounts, no cloud sync and no telemetry to external servers. Readings are stored in a local SQLite database ( `sensordata.db` ) next to the application – only when you enable it in settings.

**Tip:** You can optionally connect a local Ollama AI for extended history analysis. Data still stays on your machine – no external AI API is used without your setup.

## 7-day trial

After the first start you automatically get a **free 7-day trial**. During this period you can use full monitoring, history, overlay, export, benchmark, per-sensor pause, tools and Task Manager. Premium features (SQL admin, automation, auto fan curves, large-file scanner, group pause) require the full license.

When the trial ends, live monitoring stops. Unlock SensorPulse anytime with a one-time PayPal payment of **€4.99** (see chapter 12).

## 2. Installation

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SensorPulse is available in three variants. Choose the right method on the download page.

### Option A: Online Setup (recommended)

1. Open [sensorpulse.de/download.html](https://sensorpulse.de/download.html) in your browser.
2. Click “**Download online setup**”. The file is named `SensorPulse.Setup.exe` (language matches the website).
3. Double-click the setup file. Windows may ask for confirmation – click **Yes**.
4. The wizard starts and **downloads the application package from the internet**. Make sure you are online.
5. Choose the **destination folder** (default is fine).
6. Enable or disable **desktop shortcut** and **Start menu entry** as you prefer.
7. Click **Install** and wait until “Finished” appears.
8. Launch SensorPulse from the shortcut or Start menu.

**Online setup advantage:** Small download – the wizard always fetches the current version from [sensorpulse.de](https://sensorpulse.de) at start.

### Option B: Offline Setup

1. Download the **offline bundle (ZIP)** from the download page.
2. Extract the ZIP to a folder of your choice.
3. Run the included `SensorPulse.Setup.Offline.exe`.
4. Follow the wizard like the online install. **No internet** is needed – everything is in the package.
5. Finish installation and start SensorPulse.

# SensorPulse Setup

This wizard downloads SensorPulse from the website directory and installs the application on your PC.

## Welcome to the SensorPulse setup wizard

The wizard downloads the installation package from the website directory, extracts it to your chosen folder and optionally creates Start menu and desktop shortcuts.

Version 1.9.0 · SensorPulse-1.9.0-win-x64.zip

Download: <https://sensorpulse.de/downloads/SensorPulse-1.9.0-win-x64.zip>

Internet connection required.

The setup wizard (online or offline installation).

## System requirements

- Windows 10 or 11, 64-bit
- .NET Framework 4.8 (usually pre-installed)
- About 50 MB free disk space
- WebView2 runtime included in the package (`runtimes\` folder)

**Note:** For full access to all hardware sensors (motherboard, CPU temperature, NVMe), **administrator rights** are recommended. The app still works without admin – some sensors may be missing.

## 3. First Launch

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On the very first start SensorPulse runs through several steps. This can take 10–30 seconds – please wait until the dashboard appears.

### Step by step on first launch

1. Start `SensorPulse.exe` with a double-click.
2. A loading screen appears with progress: database, settings, license, hardware sensors.
3. After loading you see a short **7-day trial** notice (e.g. “Your 7-day evaluation is active – X days remaining”). It disappears automatically.
4. The main window opens on the **Sensors** tab with the first sensor tiles.
5. Monitoring usually **starts automatically**. Values refresh every few seconds.

### Understanding the trial

Trial status is shown in the status bar and under the **License** button. You can activate anytime – remaining trial days are displayed. After 7 days an overlay appears; monitoring pauses until you enter a license.

### Administrator rights

If few or no temperature sensors appear:

1. Click **Settings** (gear icon) in the status bar.
2. Click **Run as administrator**.
3. Confirm the Windows UAC prompt with **Yes**.
4. SensorPulse restarts with elevated rights. More sensors should now be visible.

### PawnIO (optional, for AMD CPU sensors)

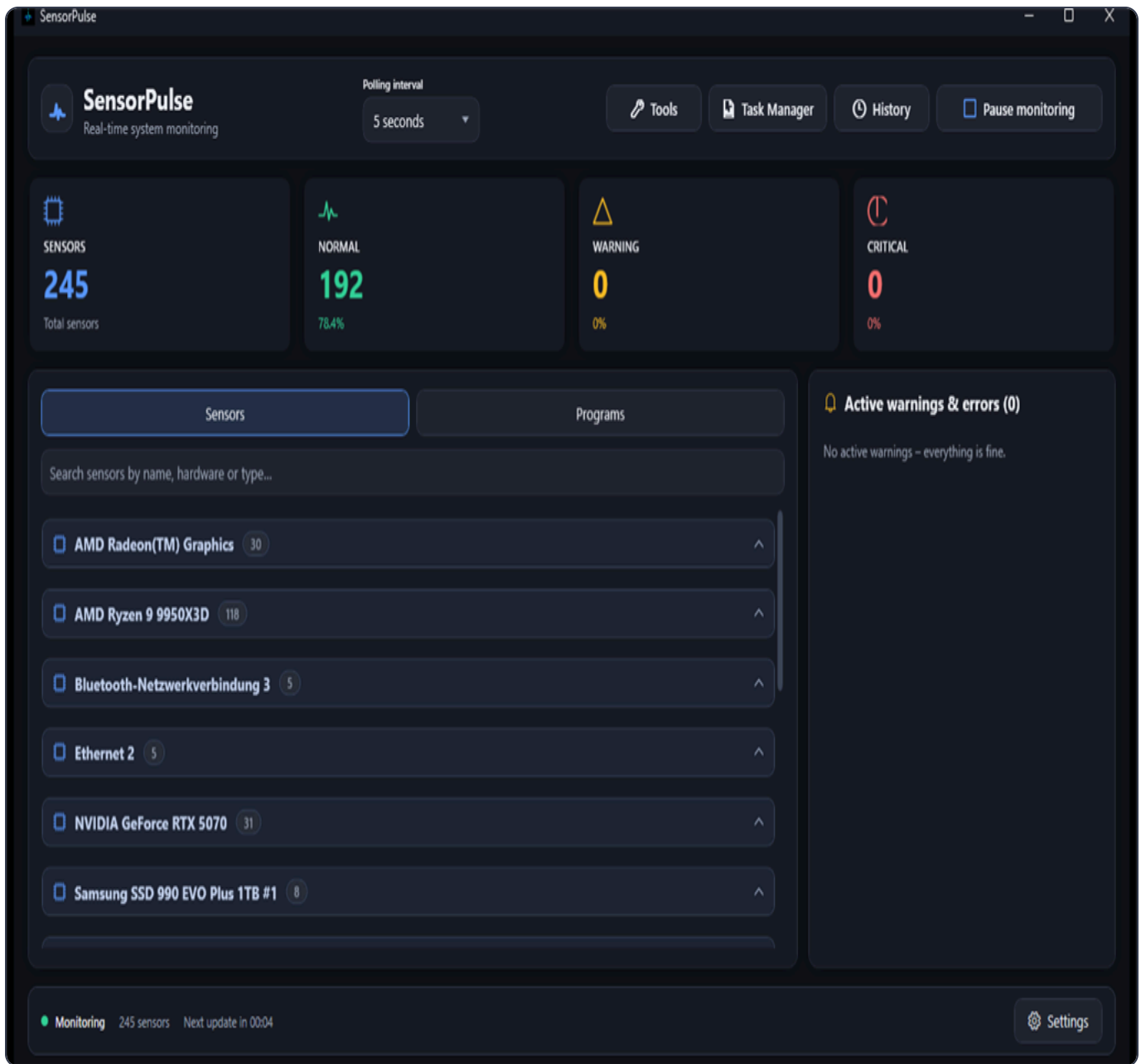
Direct CPU temperature reads on some AMD processors need the **PawnIO** driver. If SensorPulse reports this:

1. Start SensorPulse **as administrator** (see above).
2. The PawnIO installer may run automatically if bundled.
3. Alternatively download PawnIO from [pawnio.eu](http://pawnio.eu) and install manually.
4. Restart SensorPulse as administrator afterwards.

**Not required for everyone:** Many Intel systems and GPUs provide sensors without PwnIO. Install only when SensorPulse asks or CPU temperatures are missing.

## 4. Main Dashboard

The dashboard is your central screen. Here you see all live sensor values at a glance.



Dashboard: summary cards, search and grouped sensor tiles.

### Sensors tab

1. Make sure the **Sensors** tab is active (next to Programs).
2. The sensor list is grouped by hardware: CPU, GPU, motherboard, memory, storage, network, battery, etc.
3. Groups are stacked **vertically**; tiles within a group are arranged side by side.

4. Each group can be expanded or collapsed by clicking the group name.

## Summary cards

At the top you see four cards: **SENSORS, NORMAL, WARNING, CRITICAL**.

1. Click **SENSORS** to show all sensors (clear filter).
2. Click **NORMAL** to show only green, OK sensors.
3. Click **WARNING** to filter yellow sensors only.
4. Click **CRITICAL** to show only red sensors.
5. Click the same card **again** to clear the filter.

## Search

1. Click the search box "Filter sensors by name, hardware or type..." or press **Ctrl + F**.
2. Type a term, e.g. "CPU" or "Temperature".
3. Only matching sensors are shown. Press **Esc** to clear the search.

## Favorites

1. **Right-click** a sensor tile.
2. Choose **Add to favorites**.
3. The sensor appears in the **Favorites** group at the top of the list – highlighted and independent of hardware grouping.
4. To remove: right-click → **Remove from favorites**.

## Groups and sparklines

- **Groups:** Sensors are sorted by hardware. Right-click a group header → **Pause/Resume group monitoring** (license required).
- **Sparklines:** The small curve under each value shows the last minute of the current session.
- **Min/Max:** Below the current value you see minimum and maximum since monitoring started.
- **Colors:** Green = normal, yellow = warning, red = critical.

## Start and stop monitoring

1. Top right: **Start monitoring** or **Pause monitoring**.
2. Click to toggle live updates on or off.
3. Shortcut: **Ctrl + P**.
4. When paused, values freeze; the status bar shows "Paused".

## Other header buttons

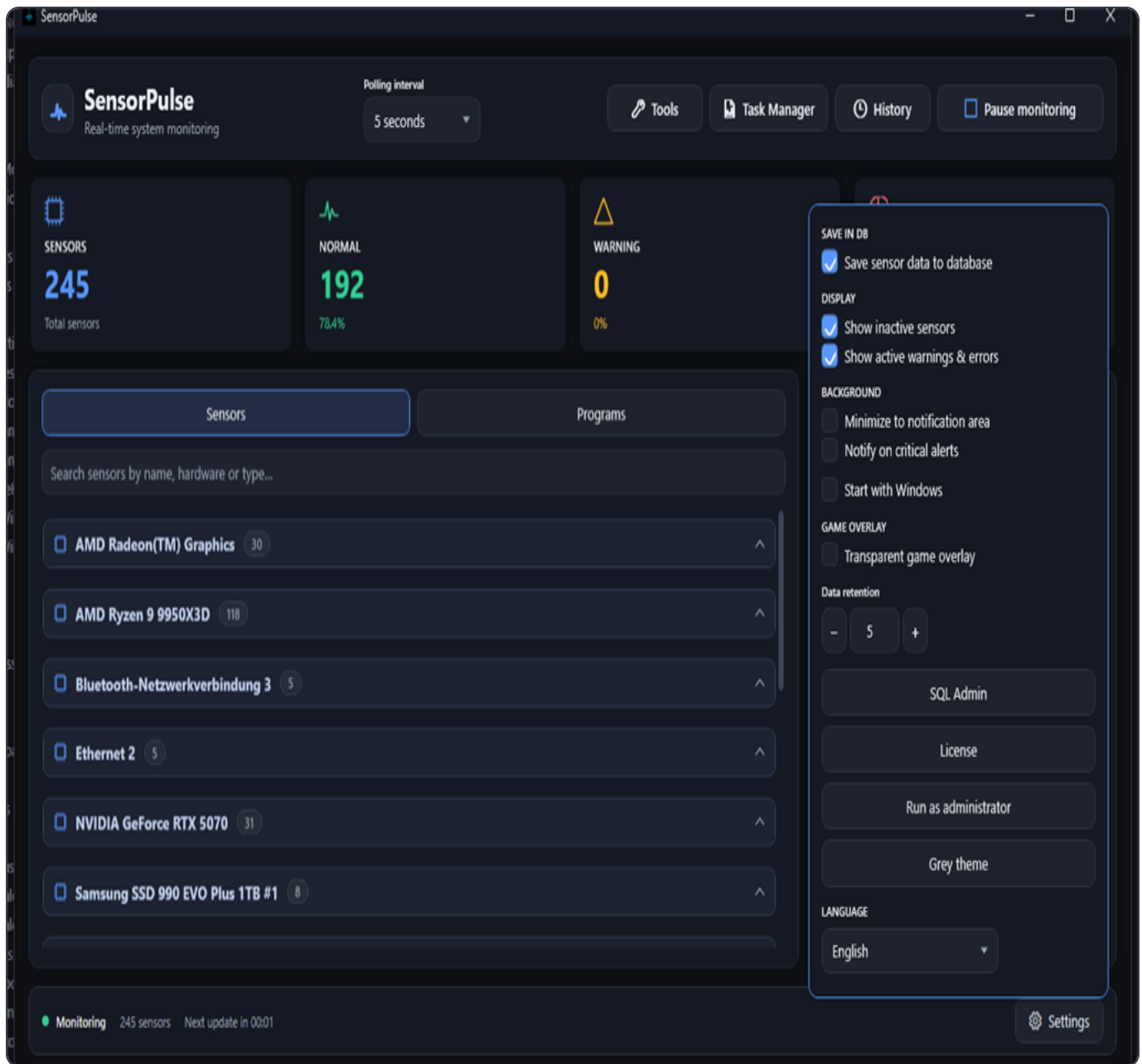
- **History** – Opens charts ( **Ctrl** + **H** )
- **Tools** – Opens the Tools Hub
- **Task Manager** – Opens the built-in Task Manager
- **Refresh interval** – How often values are read (0.5 s to 1 minute)

## Sensor tiles – double-click and context menu

1. **Double-click** a tile to open **History** for that sensor.
2. **Right-click** for: open history, favorite, per-sensor pause (trial), group pause (license).

## 5. Settings

All important options are under the **Settings** button in the bottom status bar.



Settings: language, theme, DB storage, overlay and more.

### Open and close settings

1. Click **Settings** (gear) bottom left to open the popup.
2. Click **Settings** again to close it (toggle).
3. Alternatively: `Esc` or click outside the popup.
4. Changes apply immediately and are saved to the local database.

## SAVE TO DB

1. **Persist readings to sensordata.db** – Enable to write measurements to the database. Off = live display only, no history storage.
2. **Data retention** – Numeric field (1–3650 days) with – / + or direct input. Saved when you close settings and on exit. Only active when DB storage is enabled.

## DISPLAY

1. **Show inactive sensors** – Also shows sensors that only report zero (e.g. disconnected network adapters).
2. **Show active alerts and errors** – Toggles the alert sidebar on the right.

## BACKGROUND

1. **Minimize to notification area** – Keeps running in the tray; tooltip shows CPU/GPU temperature when available.
2. **Slower refresh in background** – Less frequent sensor polling when minimized – saves CPU on weaker PCs.
3. **Notify on critical alerts** – Tray balloon when the window is hidden and a critical alert occurs.

## GAME OVERLAY

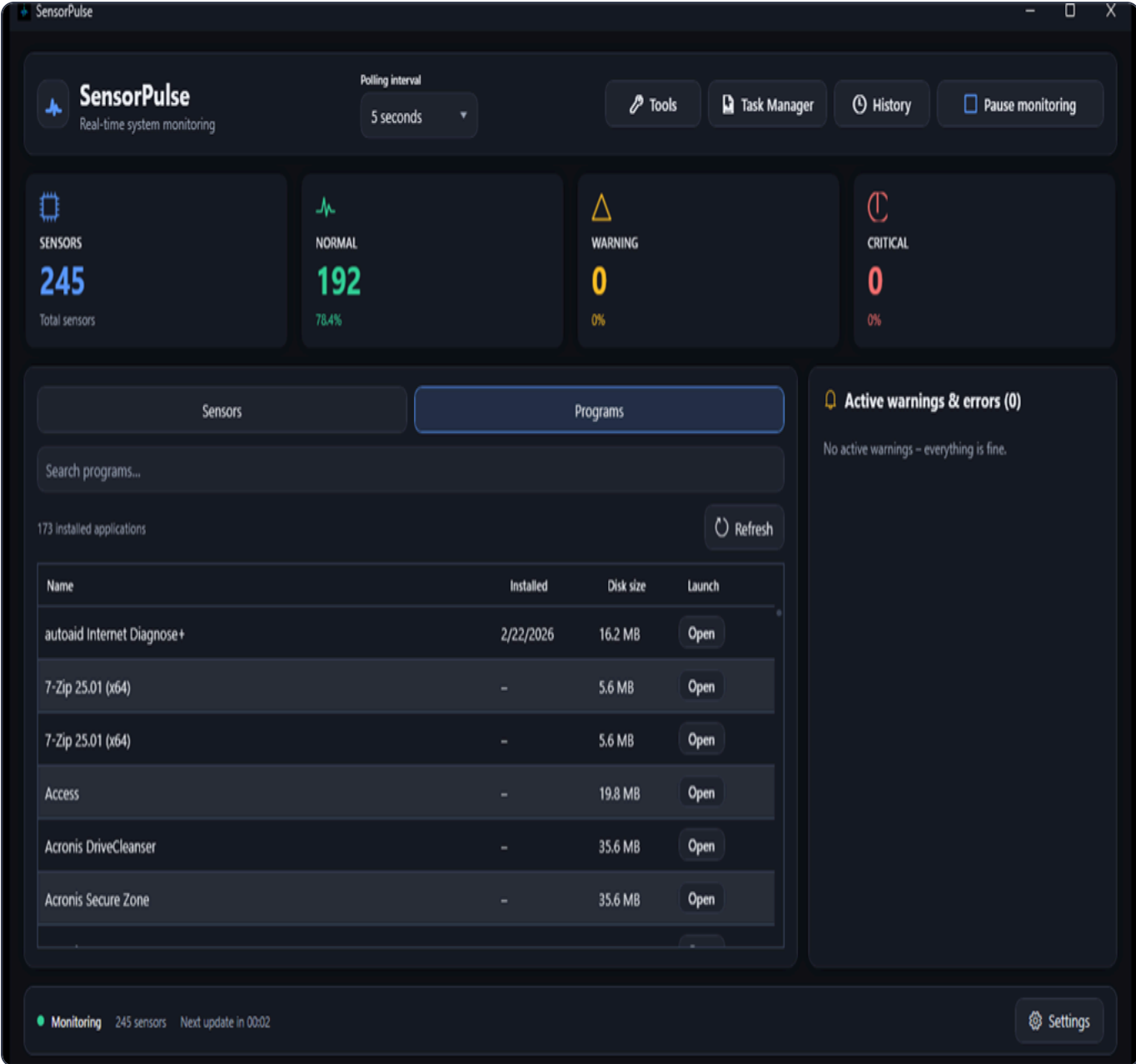
1. Enable **Transparent game overlay** to show CPU/GPU load, temperatures and FPS over all windows.
2. The overlay is click-through and sits at the top right of the screen.

## Theme, language and admin restart

1. **Dark theme / Grey theme** – Switches between dark and light UI.
2. **Deutsch / English / Italiano** – Changes the entire UI language immediately.
3. **Run as administrator** – Restarts the app with elevated rights (UAC prompt).
4. **Check for updates** – Full license only: manually checks whether a newer version is available on sensorpulse.de. Licensed users also receive automatic notifications at startup.
5. **License** – Opens license activation.
6. **SQL Admin** – Available only with an active license. Protected against manipulation.

## 6. Programs Tab – Launcher for Apps and Games

Next to the Sensors tab you find **Programs**. It lists installed applications from the Windows Start menu.



The screenshot shows the SensorPulse application window. At the top, there's a header with the SensorPulse logo, a polling interval of 5 seconds, and buttons for Tools, Task Manager, History, and Pause monitoring. Below the header, there are four status cards: Sensors (245 total sensors), NORMAL (192, 78.4%), WARNING (0, 0%), and CRITICAL (0, 0%). The main area has two tabs: Sensors and Programs. The Programs tab is active, showing a search bar and a list of 173 installed applications. A table lists several applications with columns for Name, Installed, Disk size, and Launch. The table data is as follows:

Name	Installed	Disk size	Launch
autoaid Internet Diagnose+	2/22/2026	16.2 MB	Open
7-Zip 25.01 (x64)	-	5.6 MB	Open
7-Zip 25.01 (x64)	-	5.6 MB	Open
Access	-	19.8 MB	Open
Acronis DriveCleanser	-	35.6 MB	Open
Acronis Secure Zone	-	35.6 MB	Open

At the bottom, there's a status bar showing 'Monitoring 245 sensors Next update in 00:02' and a Settings button.

Program launcher with installed apps and games.

### Load and view programs

1. Click the **Programs** tab at the top.
2. On first visit SensorPulse reads the Start menu (short load time).
3. Programs appear grouped by Start menu folders (e.g. Games, Office, Tools).
4. Columns: category, name, install date, disk size, type, launch button.

## Launch a program

1. Find the program in the list (use search if needed).
2. Click the **Launch** button in the row or double-click the tile.
3. The app starts via its shortcut ( `.lnk` ).

## Games and overlay auto-enable

1. Programs in the "Games", "Giochi" or "Spiele" folder are marked as **Game**.
2. When you start a game, SensorPulse automatically enables the **game overlay** if it was off.
3. The overlay shows CPU/GPU load, temperatures and FPS over the game.

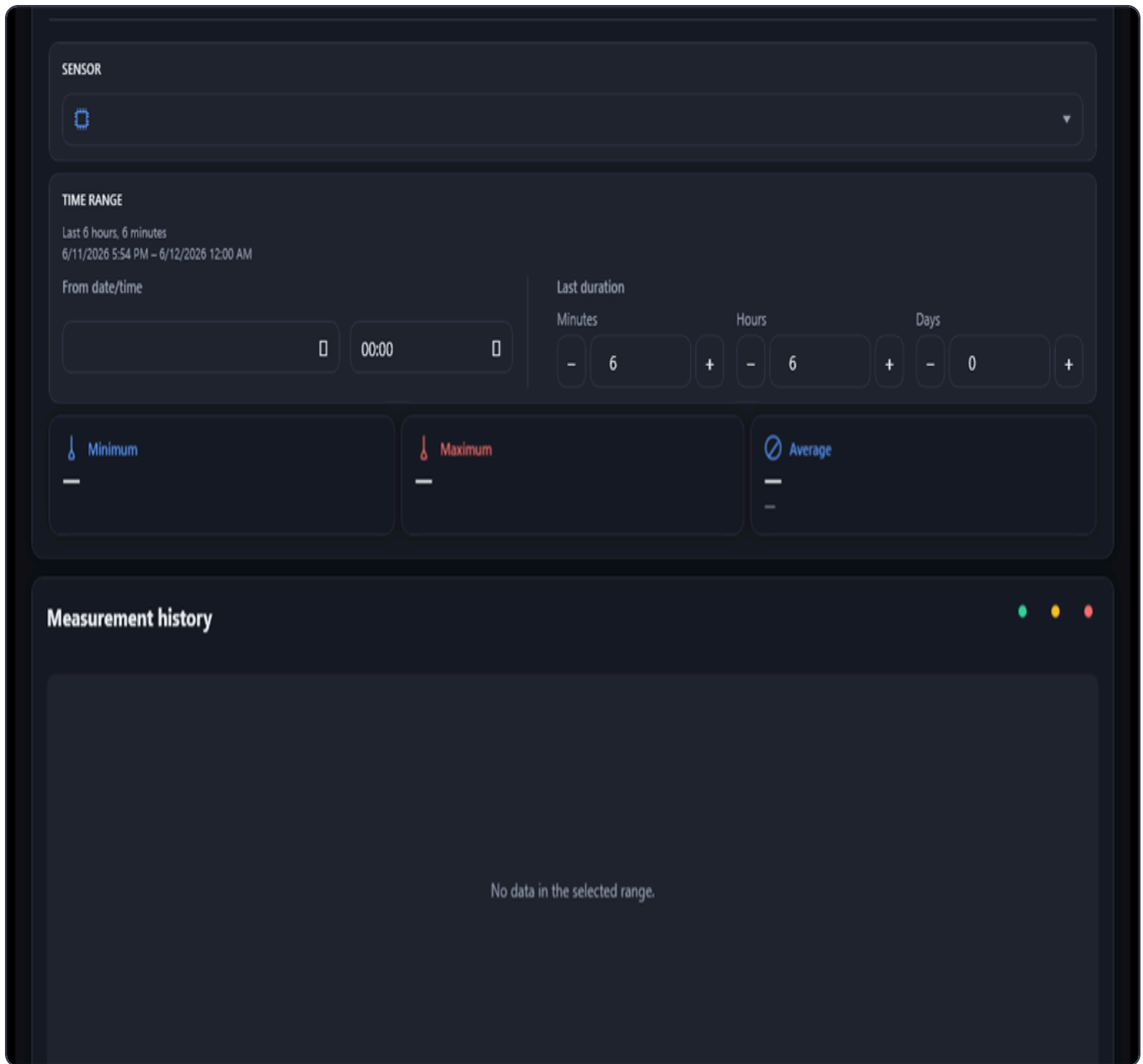
## Search and refresh

1. Use the search box to filter the list.
2. Click **Refresh** after installing new software.

**Limitation:** Only Start menu shortcuts are listed – not Microsoft Store apps without a Start menu shortcut.

## 7. History Window

History shows stored measurements as a chart – provided “Save to DB” is enabled.



History chart with threshold zones and statistics.

### Open history

1. Click **History** in the main window or press **Ctrl + H**.
2. Or: double-click a sensor tile or “Open in history” from an alert.

### Choose sensor and time range

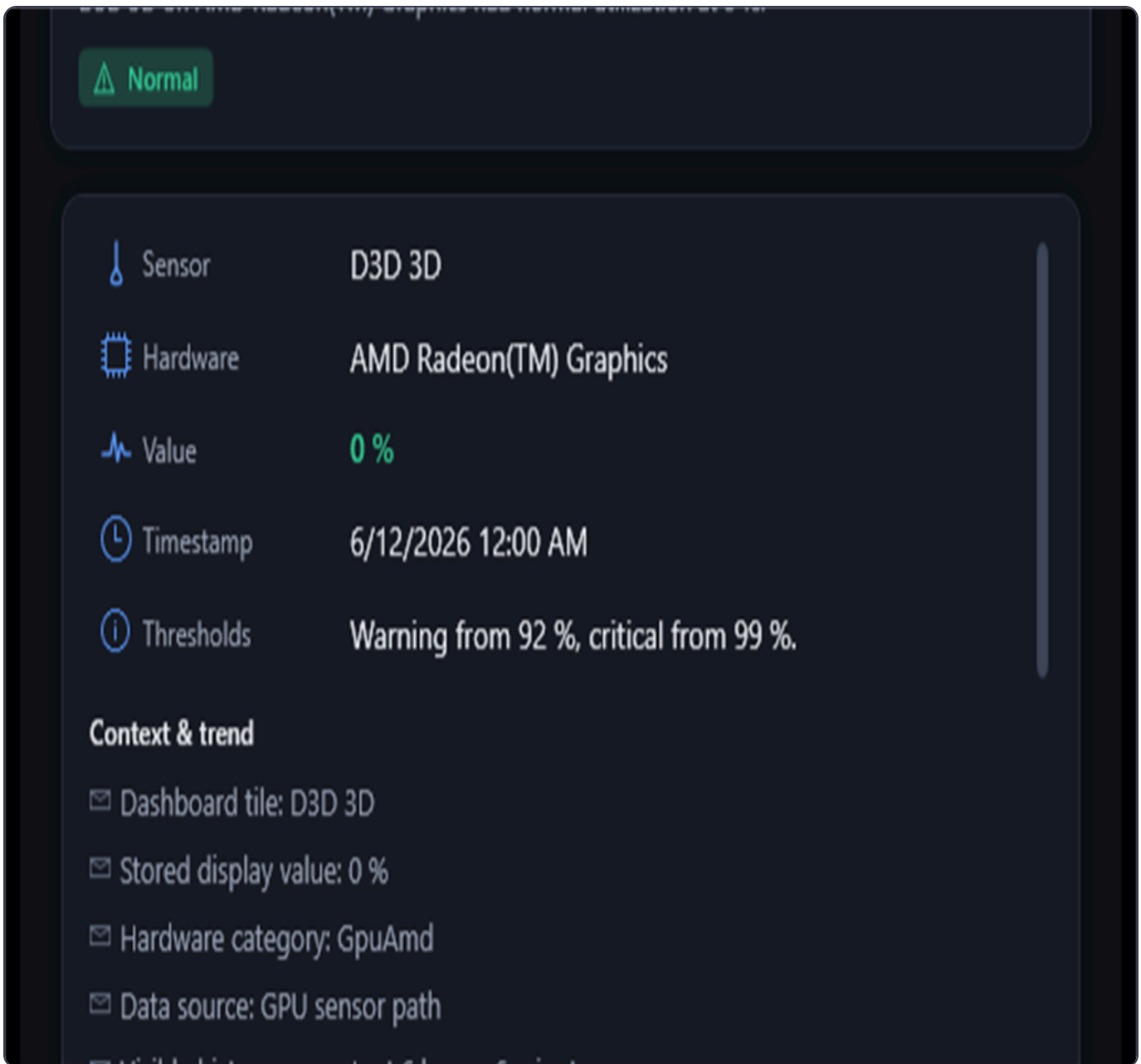
1. Select a **sensor** with stored data from the dropdown.
2. Pick a **time range**: e.g. last 15 minutes, 1 hour, 24 hours or custom.
3. Click **Refresh** to reload chart data.

### Read the chart and zoom

1. The curve shows the measurement history. Colored bands mark normal, warning and critical zones.
2. Below the chart: **Minimum**, **Maximum** and **Average** for the visible range.
3. Zoom: mouse wheel over the chart or drag to magnify a region (depending on view).

### Reading details (double-click)

1. **Double-click** a point on the chart.
2. A detail window opens with explanation, assessment, recommended actions and thresholds.
3. Section **Context & Trend** shows comparison values and trend (rising/falling/stable).



Reading details with assessment and recommendations.

### Ollama AI (optional)

1. When Ollama runs locally (default: `http://127.0.0.1:11434`), an **AI analysis** section appears.
2. Enable Ollama in Tools → Autostart & AI (see chapter 9.12).
3. Without Ollama, built-in rule-based recommendations apply – the app works fully without AI.

## 8. Alerts & Warnings

SensorPulse monitors your thresholds and shows active warnings in the sidebar and detail windows.



The image shows a dark-themed 'Alert details' window. At the top left is a yellow warning icon (a triangle with an exclamation mark). To its right is the title 'Alert details' in white. Below the title is a yellow button with a warning icon and the text 'Warning'. The main content area is a list of key-value pairs:

- Sensor:** GPU Hot Spot
- Hardware:** NVIDIA GeForce RTX 5070
- Value:** 86 °C
- Timestamp:** 6/11/2026 11:57 PM
- Message:** Warning: GPU Hot Spot (NVIDIA GeForce RTX 5070) is at 86 °C.

Alert detail window with recommendations.

### Alert sidebar

1. On the right of the main window you see "Active alerts & errors" when enabled in settings.
2. Each entry shows sensor name, value and severity (warning or critical).
3. Click an entry to open the **detail window**.
4. When there are no alerts: "No active alerts – all clear."

## Detail window

The detail window shows:

- Sensor, hardware, measured value, unit, severity
- Timestamp, first seen, occurrence count
- Technical identifier and message text
- **Open in history** – jumps to the chart for this sensor

## Adjust thresholds in Tools

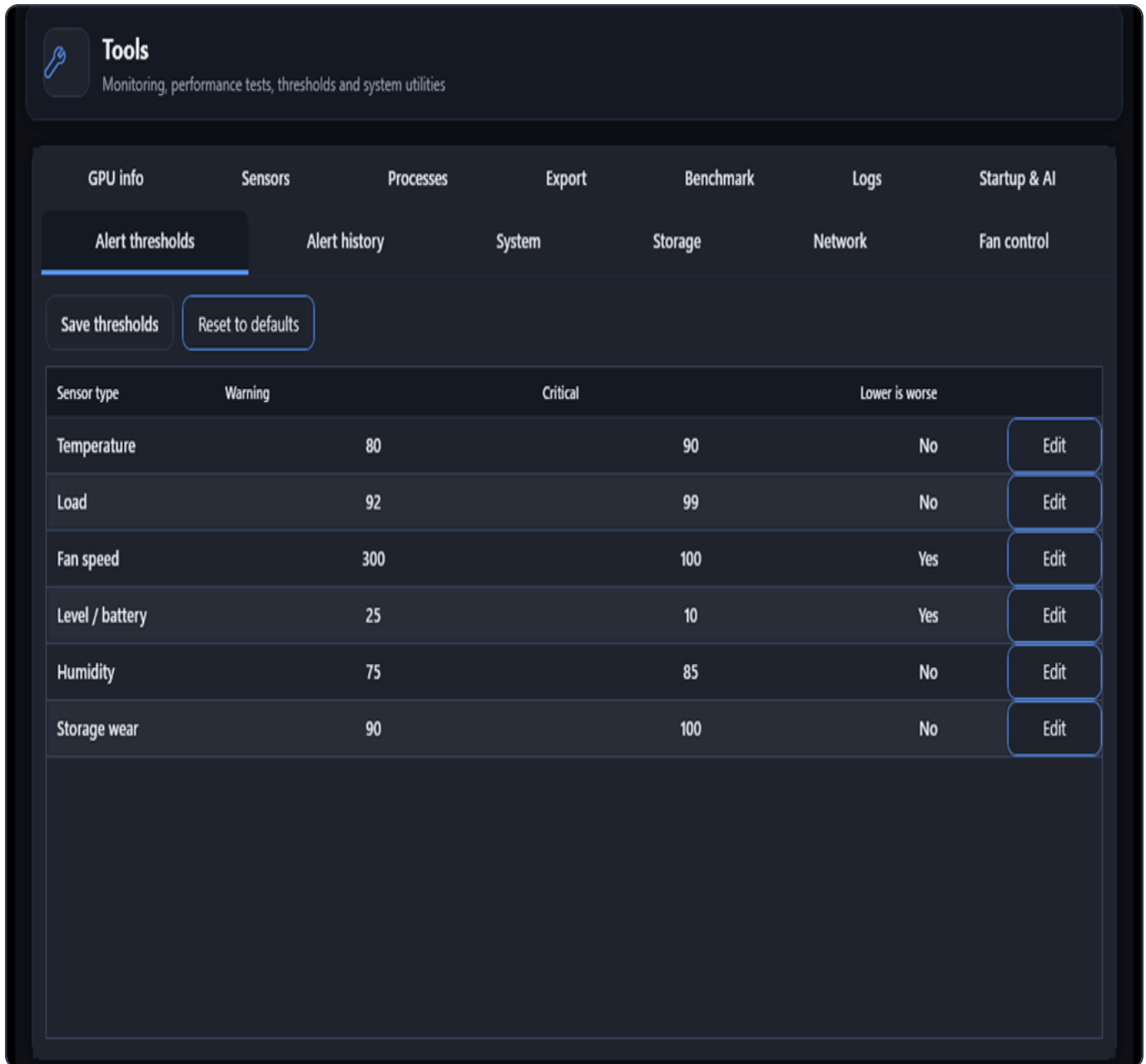
1. Open **Tools** in the main window.
2. Go to the **Alarm thresholds** tab.
3. Adjust warning and critical values per sensor type (temperature, load, fan, etc.).
4. Click **Save thresholds**.

**Debouncing:** Repeated alerts for the same sensor are suppressed for a few minutes so the list does not flood.

## 9. Tools Hub – Overview

The Tools Hub bundles 12 specialized tabs in one window. Open it via the **Tools** button in the main window.

The following sub-chapters explain each tab in detail.



The screenshot shows the Tools Hub interface with the 'Alert thresholds' tab selected. The interface includes a header with a 'Tools' icon and title, and a subtitle 'Monitoring, performance tests, thresholds and system utilities'. Below the header is a navigation bar with tabs: GPU info, Sensors, Processes, Export, Benchmark, Logs, Startup & AI, Alert thresholds (selected), Alert history, System, Storage, Network, and Fan control. Below the navigation bar are two buttons: 'Save thresholds' and 'Reset to defaults'. The main content area displays a table of sensor thresholds.

Sensor type	Warning	Critical	Lower is worse	
Temperature	80	90	No	Edit
Load	92	99	No	Edit
Fan speed	300	100	Yes	Edit
Level / battery	25	10	Yes	Edit
Humidity	75	85	No	Edit
Storage wear	90	100	No	Edit

The Tools Hub with benchmark, export, fan control and more.

## 9.1 Alarm Thresholds

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1. Open Tools → **Alarm thresholds** tab.
2. The table lists sensor types: temperature, load, fan speed, level/battery, humidity, storage wear.
3. Double-click a row or click **Edit** to adjust warning and critical values.
4. **Lower is worse** applies e.g. to fans (too low = bad) or battery level.
5. Click **Save thresholds** to apply.
6. **Restore defaults** resets all values to factory settings.

## 9.2 Alert History (7 / 30 / 90 days)

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1. Go to the **Alert history** tab.
2. Choose the period: **7 days**, **30 days** or **90 days**.
3. The table shows time, severity, sensor, value and message for all logged alerts.
4. Use this to spot recurring issues (e.g. regularly high CPU temperature).

## 9.3 System Overview

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1. Open the **System** tab.
2. Read the table with OS, version, architecture, last boot, processor, cores, RAM, computer name, user, model, graphics, uptime, power source, **power plan** and **disk health** (since 1.10).
3. Click **Refresh** to update values.

## 9.4 Storage – Drives & Top-100 Scan

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### Drive overview

1. Open the **Storage** tab.
2. See all drives with label, total/free/used space, type and file system.

### Scan top 100 largest files

The scan works on the selected drive regardless of file system – e.g. **NTFS**, **exFAT**, **FAT32**, **ReFS** or other Windows-supported formats. SensorPulse automatically picks the fastest enumeration for the detected format.

1. Select a drive in the list.
2. Click **Show largest files**.
3. Wait until the scan completes (progress is shown).
4. Results show size, file name, path and extension of the largest files.
5. Use **Cancel** to stop a running scan.

**Caution:** Delete files only when you are sure they are not needed. The scan only lists – it does not delete automatically.

## 9.5 Network Adapters & Speed Test

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1. Open the **Network** tab.
2. See all adapters with name, status (up/down), type (Ethernet/Wi-Fi), speed, IPv4 address and MAC address.
3. Select a **connected** adapter in the table.
4. Choose the test duration (10–120 seconds) and click **Start speed test**.
5. The test runs download first, then upload via the selected adapter. Live charts show download rate, upload rate and received/sent bytes (B/KB/MB).
6. An internet connection is required. Traffic should appear on the chosen adapter in Windows Task Manager.

## 9.6 Fan Control

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1. Open the **Fan control** tab.
2. Select a controllable fan from the list (not available on all systems).
3. Drag the **slider** to the desired speed percentage.
4. Click **Apply** to set the speed.

**Caution:** Software fan control can conflict with BIOS or vendor tools. Too low speeds can cause overheating. Change only if you know what you are doing.

## 9.7 GPU Info Panel

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1. Open the **GPU info** tab.
2. See name, type, driver version, VRAM (total and used), graphics processor and bus/PNP ID.
3. Multiple GPUs get separate panels.
4. Without a detected GPU you see "No GPU detected".

## 9.8 Sensors Snapshot Table

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1. Open the **Sensors** tab.
2. The table lists all current sensor values: hardware, sensor name, type, value, unit and status.
3. Use this for a quick overview or to compare many values at once.
4. Click **Refresh** to update values.

## 9.9 Process Monitor (Top 15)

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1. Open the **Processes** tab.
2. The table shows the 15 processes with highest CPU or memory usage (refreshes every 2 seconds).
3. Columns: process name, CPU %, memory.
4. Click **Open full Task Manager...** for all processes and advanced actions.

## 9.10 Export – CSV and HTML

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1. Open the **Export** tab.
2. **Export current sensors (CSV)** – Saves all current sensor values as CSV.
3. **Export alert history (CSV)** – Exports logged alerts.
4. **Create HTML system report** – Generates a readable HTML report with system and sensor overview.
5. Choose folder and file name in the save dialog.

## 9.11 Benchmark – performance & stress tests

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1. Open the **Benchmark** tab.
2. Choose **test type**: short CPU performance, **CPU sustained load (FFT)** (Prime95-like), RAM, disk, GPU compute or **GPU 3D stress test** (fullscreen OpenGL with transparent stats overlay).
3. For CPU sustained load: **small FFT** or **large FFT** profile. For GPU 3D optionally enable **lite mode**. The test automatically opens fullscreen stress plus a click-through overlay with FPS, load and peak temperatures.
4. Set **duration** (10–300 seconds).
5. Click **Start test**. Live chart in Tools, all overlay values and peaks are stored in the history table (profile, peak GPU/CPU, peak GPU load).
6. Click **Stop** to cancel early.



## Tools

Monitoring, performance tests, thresholds and system utilities

GPU info

Sensors

Processes

Export

Benchmark

Logs

Startup & AI

Alert thresholds

Alert history

System

Storage

Network

Fan control

Save thresholds

Reset to defaults

Sensor type	Warning	Critical	Lower is worse	
Temperature	80	90	No	Edit
Load	92	99	No	Edit
Fan speed	300	100	Yes	Edit
Level / battery	25	10	Yes	Edit
Humidity	75	85	No	Edit
Storage wear	90	100	No	Edit

Benchmark tab with live chart and additive SensorPulse points.

**Note:** The benchmark intentionally loads your system. Close important programs first and ensure adequate cooling.

## 9.12 Autostart & Ollama AI

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### Windows autostart

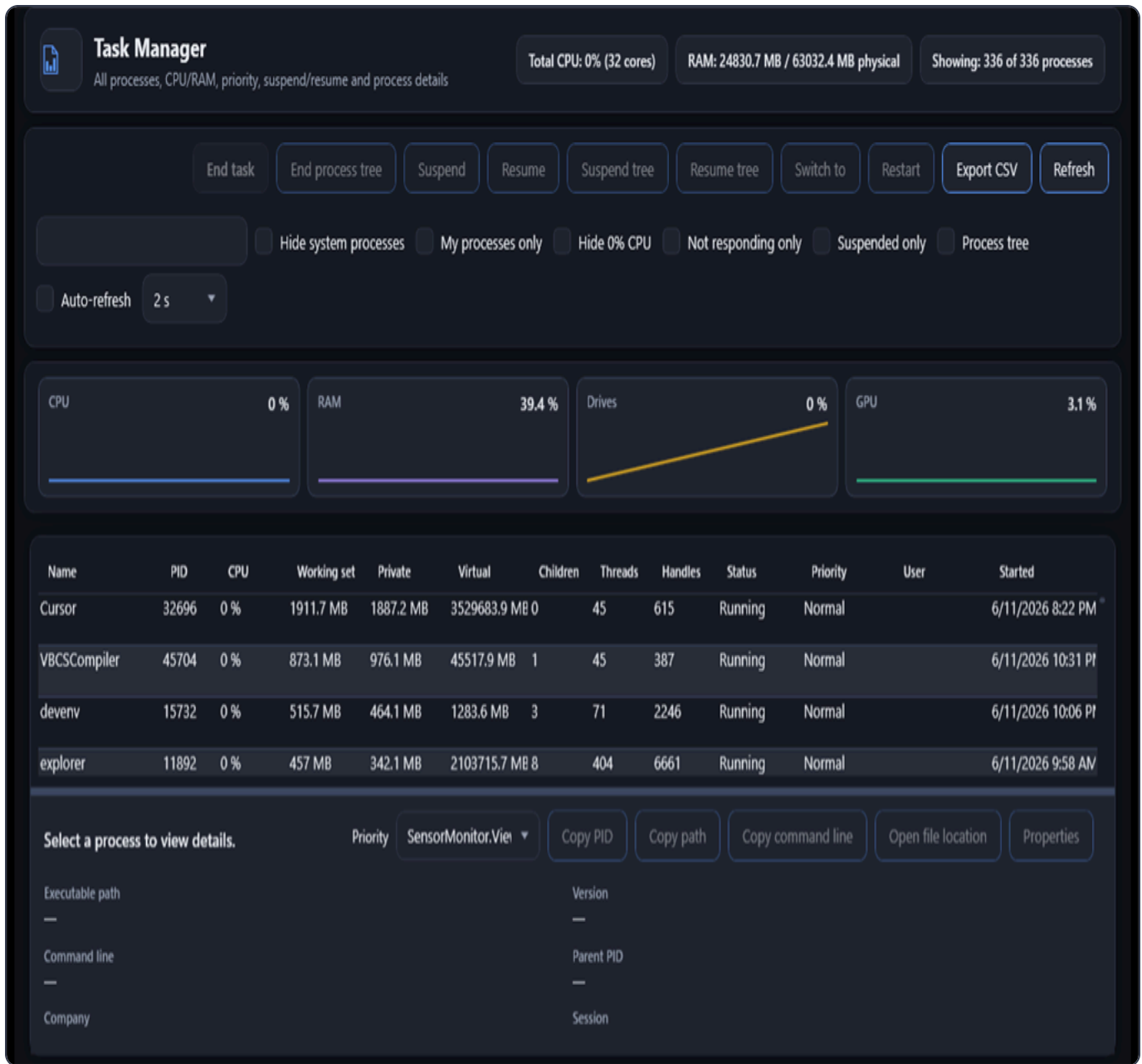
1. Open the **Autostart & AI** tab.
2. Enable **Start with Windows** so SensorPulse opens when you sign in.

### Ollama (local AI)

1. Enable **Enable Ollama insights in history details**.
2. Enter the **Ollama endpoint** (default: `http://127.0.0.1:11434`).
3. Enter the **Ollama model** (e.g. `llama3` – depends on your installed model).
4. Install Ollama separately from ollama.com and pull a model.
5. Click **Save autostart & AI settings**.

# 10. Task Manager

The built-in Task Manager shows all running processes with performance charts and extensive actions.



Task Manager: live charts for CPU, RAM, disk and GPU.

## Open Task Manager

1. Click **Task Manager** in the main window.
2. The window loads all processes and shows performance sparklines for CPU, RAM, disks and GPU at the top.

## Performance charts

Four sparkline cards show current CPU, memory, disk and GPU utilization in percent.

## Filter the process list

1. Use the **search box** to filter by name, PID, path or user.
2. Enable filters: **Hide system processes**, **My processes only**, **Hide 0% CPU**, **Not responding only**, **Suspended only**.
3. Summary shows: "Showing: X of Y processes".

## Process actions

Select a process and use the buttons:

1. **End task** – Terminates the selected process (with confirmation).
2. **End process tree** – Ends the process and all child processes.
3. **Suspend / Resume** – Pauses or resumes the process.
4. **Suspend tree / Resume tree** – For process and children.
5. **Switch to window** – Brings the process main window to the foreground.
6. **Restart** – Ends and restarts the process.
7. **Properties** – Opens Windows file properties.
8. **Export CSV** – Saves the current process list.

## Detail panel

At the bottom you see details for the selected process: path, command line, company, description, version, parent PID, session, architecture, total CPU time and responding status.

## Change priority

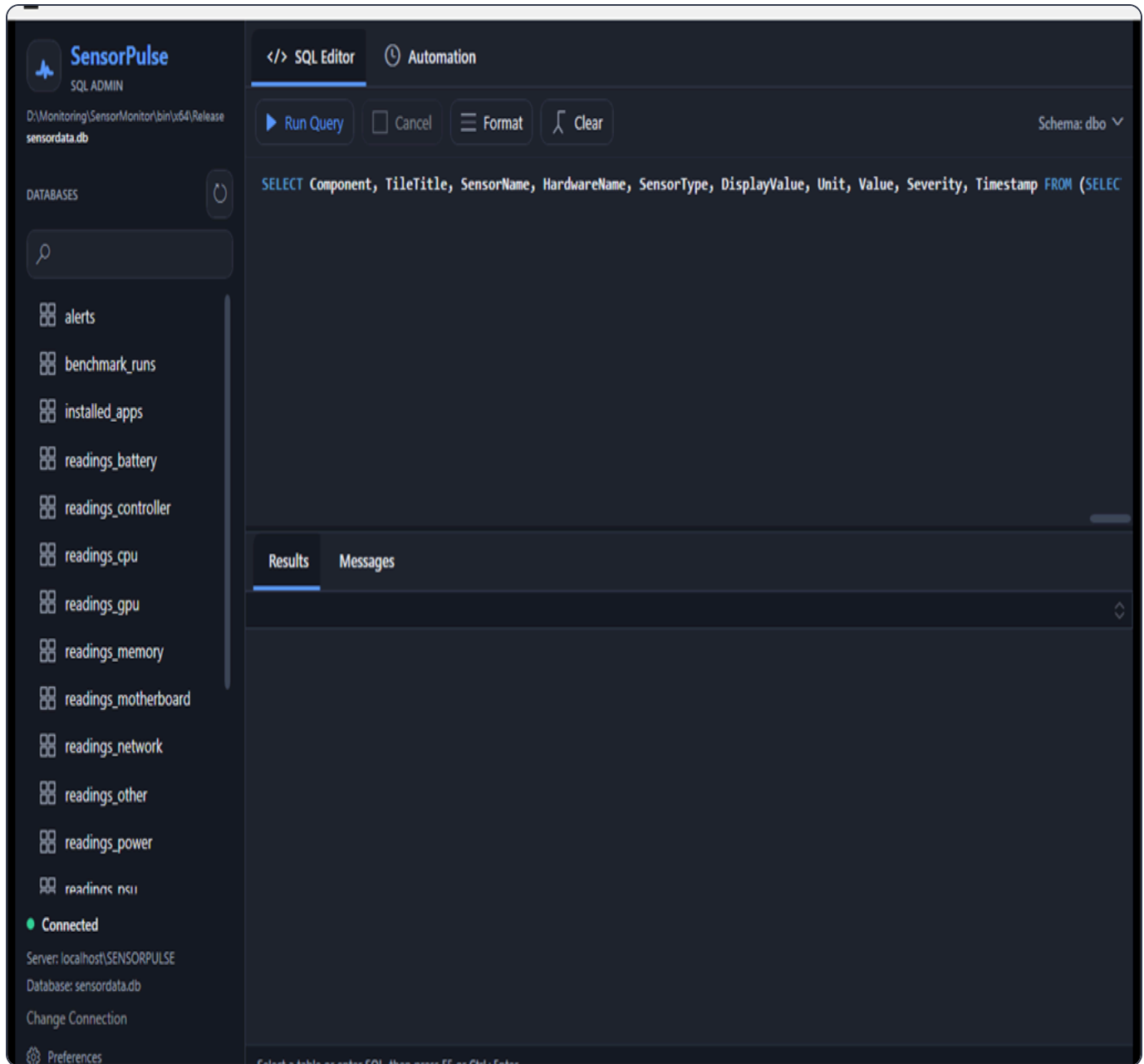
1. Select a process.
2. Use the **Priority** dropdown: Idle, Below normal, Normal, Above normal, High, Realtime.

**Caution:** Ending or suspending system processes can destabilize Windows. Only end processes you recognize.

## 11. SQL Admin & Automation (license required)

SQL Admin is available only with an active full license. It works on the local `sensordata.db` database.

**Protected against manipulation.**



SQL Admin: queries, tables and automation. Protected against manipulation.

### Open SQL Admin

1. Activate your license first (chapter 12).
2. Click **SQL Admin** in settings or the header.
3. Left: database tables; right: SQL editor.

## Tables

Readings are stored in component tables: `readings_cpu`, `readings_gpu`, `readings_motherboard`, `readings_memory`, `readings_storage`, `readings_network` and more. Plus `alerts` and `settings`.

## Run SQL

1. Click a table in the sidebar to load a sample `SELECT` query.
2. Edit the SQL or write your own query.
3. Click **Run query** or press `F5` / `Ctrl + Enter`.
4. A progress overlay shows the workflow: prepare → execute on database → read results → display in grid.
5. Results appear in the **Results** tab; messages in **Messages**.
6. Scroll only in the results area – editor and toolbar stay fixed. Large queries without `LIMIT` are capped at 3,000 rows automatically.

## Security & allowed commands

SQL Admin is **protected against manipulation**:

- Allowed: `SELECT`, `EXPLAIN`, read-only `PRAGMA`, `INSERT`, `UPDATE`, `TRUNCATE`
- Blocked: schema and database commands such as `DROP`, `ALTER`, `CREATE`, `VACUUM`, `DELETE`, etc.
- Blocked commands are shown in the **Messages** tab – it switches automatically on violations.

## Automation

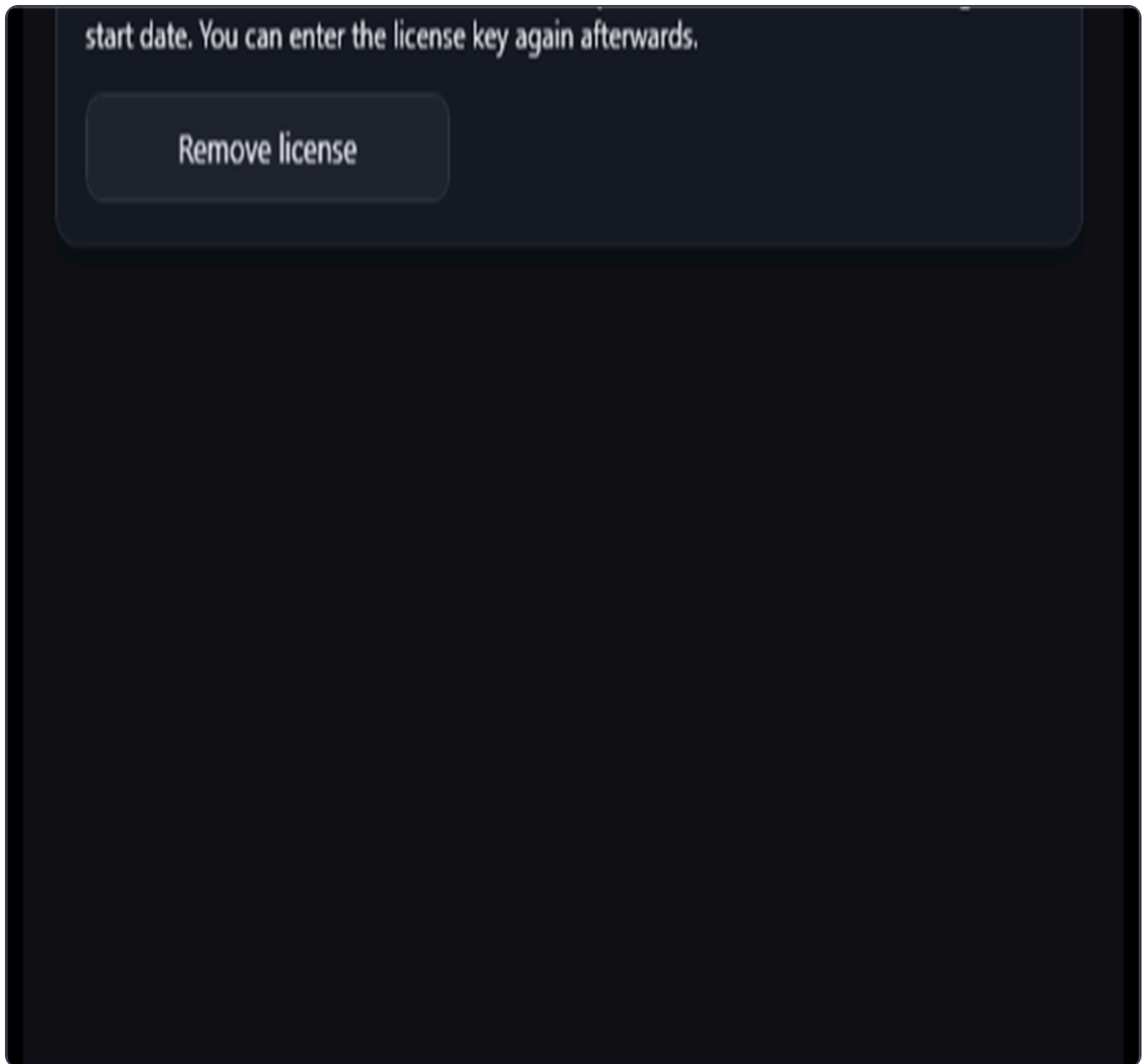
Switch to the **Automation** tab:

1. Create scheduled tasks: **Delete old data**, **Backup database** (→ `backups` folder), **Optimize database** (`VACUUM`).
2. Schedule: **Daily at fixed time**, **Every N hours** or **On program start**.
3. Use **Add task**, **Edit**, **Run now** and **Delete**.

**Important:** Scheduled tasks run only while SensorPulse is open. For background maintenance, enable Windows autostart.

## 12. License Activation – PayPal & SPUL Key

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License window: trial, SPUL key and PayPal activation.

### Buy a license

1. Click **License** in the main window or settings.
2. Enable the **withdrawal consent** checkbox (immediate delivery of digital software per § 356 (5) BGB).
3. Click **Pay with PayPal** (opens the browser).
4. Complete the **€4.99** payment.
5. Request your license key by email (link on the website or in the confirmation).

## Enter your key

1. Open **License** again.
2. Paste the key in format `SPUL-XXXX-XXXX-XXXX-XXXX`.
3. Click **Activate**.
4. On success the status bar shows "Licensed" and SQL Admin is unlocked.

## Manage license

- **Deactivate** – Removes the license on this PC (trial continues from original start date).
- Updates released in the calendar year of purchase are included with your license.

## 13. Game Overlay – Hotkey **Ctrl** + **Shift** + **0**

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The transparent overlay shows CPU/GPU load, temperatures and FPS over all applications – ideal for gaming.



Transparent overlay with CPU, GPU and FPS.

### Enable overlay

1. Open **Settings** and enable **Transparent game overlay**.
2. Or press **Ctrl** + **Shift** + **0** anytime to toggle the overlay.
3. Tray icon: right-click → **Toggle game overlay**.

## Understanding the overlay

- The window sits top right and is **click-through** – you can play underneath.
- It shows CPU %, GPU %, temperatures and FPS (when available).
- Starting a game from the Programs tab auto-enables the overlay.

## 14. Keyboard Shortcuts

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Shortcut	Action
F1	Context-sensitive help for current screen
Ctrl + P	Start / pause monitoring
Ctrl + H	Open history window
Ctrl + F	Focus sensor search
Esc	Clear search or severity filter; close settings
Ctrl + S	Save screenshot of active window
Ctrl + Shift + O	Toggle game overlay on / off
F5 / Ctrl + Enter	Execute SQL query (SQL Admin)

## 15. Troubleshooting & FAQ

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### No or too few sensors shown

1. Start SensorPulse **as administrator** (Settings → Run as administrator).
2. Enable **Show inactive sensors** in settings.
3. On AMD CPUs: install **PawnIO** and restart as admin.
4. Some laptops report fewer sensors than desktops – this is hardware-dependent.

### History is empty

1. Enable **Persist readings to sensordata.db** in settings.
2. Start monitoring and wait a few minutes.
3. Check data retention – very short periods delete old data quickly.

### Trial expired

1. Click **License** and activate with your SPUL key.
2. Or buy a license via PayPal on the website.

### Error log (errors.log)

Technical errors are logged automatically at:

`logs\application\errors.log` (in the SensorPulse data folder next to the EXE)

1. Open the SensorPulse installation folder.
2. Navigate to `logs\application\`.
3. Open `errors.log` with a text editor when contacting support.

### App won't start or crashes

- Check that .NET Framework 4.8 is installed.
- Try running as administrator.
- Remove older versions and extract the ZIP again.
- Read `errors.log` for details.

### More help

Press **F1** in the app for context-sensitive help. Visit [sensorpulse.de](https://sensorpulse.de) for downloads, FAQ and contact.