CONNECTION LATENCY · LIVE ON YOUR CHART

Fuse Latency Monitor

Setup & User Guide

Everything you need to install the monitor, read its four states and set your own thresholds, wording and alert.

Version 1.0 · rev 1.0.1 | NinjaTrader 8 Compatible | Free

WELCOME

Before you start

Fuse Latency Monitor is a **chart indicator** for NinjaTrader 8 that shows the **latency of your market data** in a small box on the chart. The box shows a **state** — Optimal, Stable, Degraded or Critical — together with the value in milliseconds, and it changes color as latency rises. This guide walks you through installation, the display and every setting.

What you need

Platform	NinjaTrader 8 (latest stable release recommended). Works on live and simulation accounts. An active data connection is required.
Operating system	Windows 10 / 11. On Apple Silicon Macs, run NinjaTrader inside a Windows VM (Parallels / VMware).
Your license	None. Fuse Latency Monitor is free — there is no license key and no activation step.

What's inside the download

A single NinjaScript add-on archive (**FuseLatencyMonitor.zip**) plus this guide. You do **not** need to unzip the archive — NinjaTrader imports it directly.

THE 3-STEP SETUP

1 · Import the add-on → **2 · Add** it to a chart → **3 · Choose** corner, wording and thresholds. About two minutes, once.

EVERYTHING IS YOURS TO SET

The three thresholds, the wording, what the box shows, the corner and offset, font size, every color, the sound alert and the statistics line are all adjustable in Properties and are saved with your chart or template.

DISPLAY ONLY

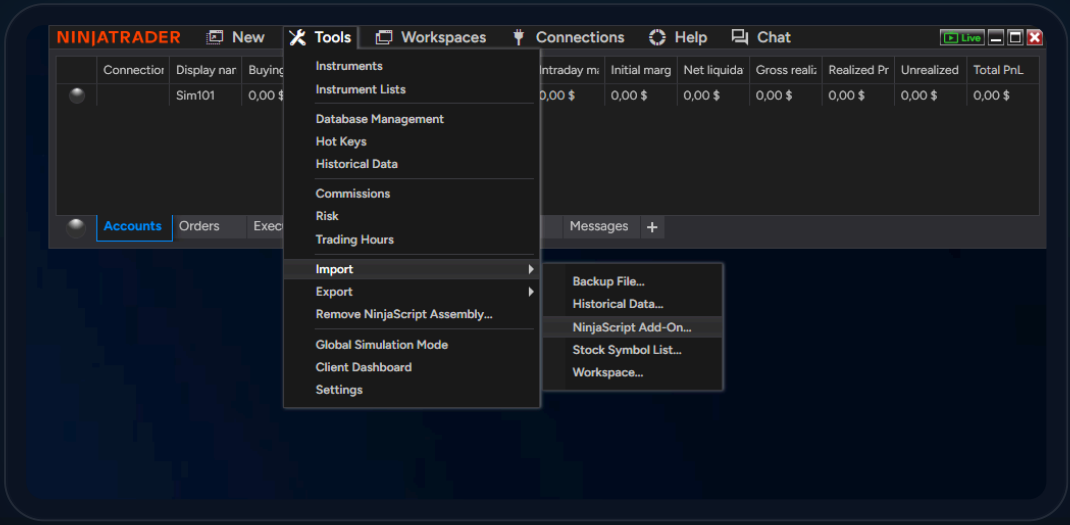
Fuse Latency Monitor only draws on your chart. It does not place, modify or cancel orders and does not access your account.

Futures trading involves substantial risk of loss. Past performance is not necessarily indicative of future results.

STEP ONE

1 Import the add-on

In NinjaTrader, open the Control Center and go to **Tools → Import → NinjaScript Add-On...**



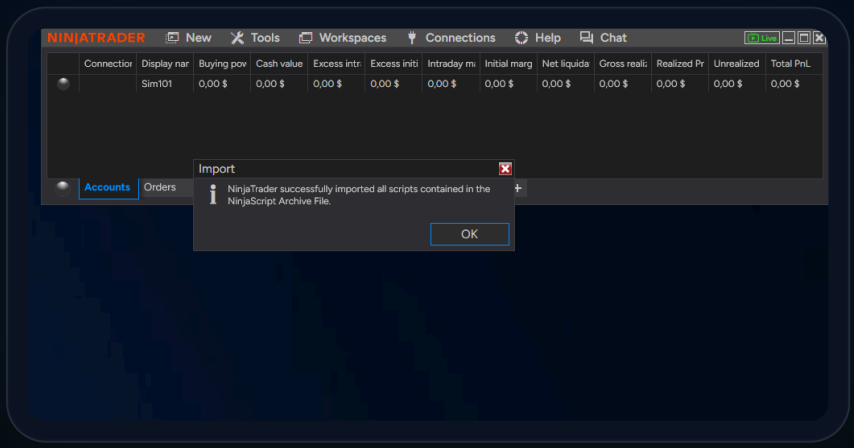
Tools → Import → NinjaScript Add-On... in the NinjaTrader Control Center

1 Select the archive

A Windows file window opens. Browse to your downloaded **FuseLatencyMonitor.zip** and select it. Import starts immediately — you don't unzip it first.

2 Confirmation

NinjaTrader imports and compiles the add-on automatically, then confirms:



Success — **"NinjaTrader successfully imported all scripts"**. Click OK.

IMPORTANT

No manual compiling is required. If the indicator doesn't appear in the list yet, simply restart NinjaTrader once — compilation finishes on startup.

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STEP TWO

2 Add it to a chart

Open a chart for the instrument you trade (e.g. **NQ** or **MNQ**) with any bar type. Right-click the chart and choose **Indicators...**, then expand the **FuseSuite** folder and add **FuseLatencyMonitor**.

1. **Open Indicators**
   Right-click the chart and choose **Indicators...**

2. **Pick FuseLatencyMonitor**
   Under **FuseSuite**, double-click **FuseLatencyMonitor** — it moves to Configured.

3. **Apply**
   Click **OK**. The box appears in the top-right corner of the chart and shows the current latency as soon as live data arrives.



The box in its default place — **top-right corner** of the chart

TIP

Save the chart as a template / workspace so Fuse Latency Monitor loads with your corner, wording and thresholds every time you open that chart.

NOTHING ON THE CHART YET?

The monitor measures **live** market data only. Right after you add it, it waits for the first live tick — in a quiet market that can take a moment. History is never measured.

You don't need to change anything in **Properties** to get started — the defaults place the box in the top-right corner. Every setting is listed on pages 11–12.

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THE DISPLAY

The four states

The box shows one of four states, each with its own dot color. The state comes from the latency value and from three thresholds that **you** can change (page 12).



Optimal · up to 150 ms



Stable · above 150 ms



Degraded · above 250 ms



Critical · above 400 ms

Optimal	Latency is at or below the “Stable above” value. Green dot.
Stable	Latency is above 150 ms (default). Teal dot.
Degraded	Latency is above 250 ms (default). Orange dot.
Critical	Latency is above 400 ms (default). Red dot, red frame and a red-tinted background, so it stands out on the chart.

What is measured

For every live **Last** tick, the monitor compares your computer's clock (UTC) with the tick's timestamp. The result is the **delay of the market data feed** relative to your computer's clock — it is **not** a network ping. At most one measurement is taken per sampling interval (1000 ms by default).

KEEP YOUR CLOCK IN SYNC

Because the value is compared with your Windows clock, keep the system time synchronised for meaningful numbers. Values above 5,000 ms are ignored as bad timestamps.

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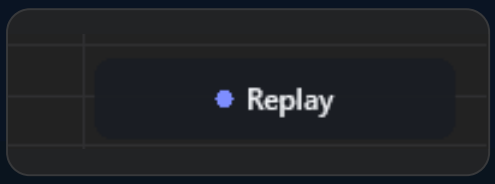
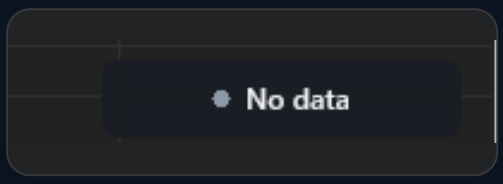
THE DISPLAY · OTHER STATES

Replay, No data and Disconnected

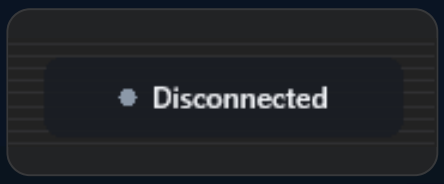
Besides the four latency states, the box can show three more. They are not about latency — they tell you **why there is no number**.



Replay



No data



Disconnected

Replay	The Market Replay connection is active. Replay ticks are historical, so no latency is measured. Purple-blue dot.
No data	Connected, but no live tick has arrived for **5 seconds** (or none yet since you added the indicator). Grey dot.
Disconnected	No data connection is active. Grey dot.

QUIET MARKETS

“No data” can also appear on a thin instrument outside active hours simply because no trades are printing. It goes away with the next live tick.

COLORS

The Replay and the No data / Disconnected colors can be changed under **Colors** (page 12).

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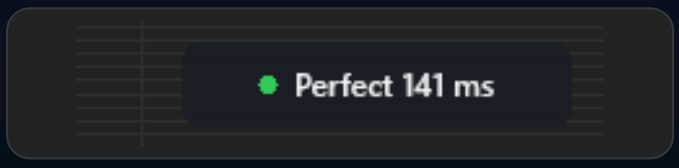
APPEARANCE · WORDING

Four ways to word the states

Choose how the states are worded under **Appearance → Wording**. The default is **Technical**. The dot colors and the thresholds do not change — only the word.

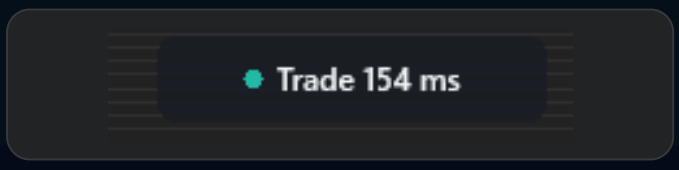
WORDING	OPTIMAL	STABLE	DEGRADED	CRITICAL
Technical	Optimal	Stable	Degraded	Critical
Trading	Perfect	Normal	Slippage	Danger
Actionable	Trade	Trade	Caution	Stop
Short	Opt	Ok	Warn	Crit



Trading · Perfect



Trading · Danger



Actionable · Trade



Actionable · Stop



Short · Opt



Short · Crit

ACTIONABLE: SAME WORD, DIFFERENT COLOR

In **Actionable**, Optimal and Stable both read “Trade”. You tell them apart by the dot color (green and teal) and by the number.

The words describe the state of your data feed only. They are labels, not trading signals.

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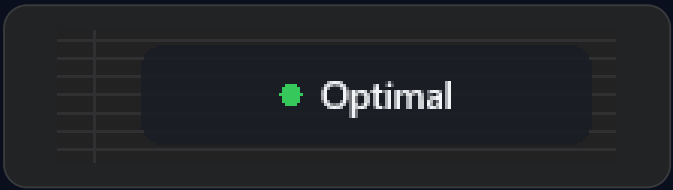
APPEARANCE · CONTENT

What the box shows

Under **Appearance** → **Content** choose what the box shows. The default is **StatusAndLatency**.

StatusAndLatency	**Default.** The state word and the value, e.g. “Stable 193 ms”.
StatusOnly	Only the state word, e.g. “Stable”. The dot color still shows the state.
LatencyOnly	Only the number in milliseconds, e.g. “151 ms”.



StatusOnly · Optimal



StatusOnly · Critical



LatencyOnly · Optimal



LatencyOnly · Critical

Min / avg / max line



Show min / avg / max on

Turn on **Statistics** → **Show min / avg / max** to add a second line with the **minimum, average and maximum** of the last measurements. It uses the last **30** measurements by default; change **Measurements used** (2 to 500) to widen or shorten the window.

The line is shown while the box shows one of the four latency states.

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THE DISPLAY · POSITION

Corner, offset and stacking

Choose where the box sits under **Position**. Defaults: **TopRight**, offset **12 · 12**. **Corner** accepts TopLeft, TopRight, BottomLeft or BottomRight.

Corner	Which corner of the chart holds the box. Default: **TopRight**.
Offset X / Y (px)	Distance from the chart edges. Default: **12** each.
Stack with other Fuse boxes	Line up with the other Fuse boxes in the same corner. Default: **On**.

Stacking with other Fuse boxes

Fuse Bar Counter, Fuse Latency Monitor and Fuse ATR can share one corner.

With **Stack with other Fuse boxes** on (default), boxes in the same corner of the same chart line up top to bottom in this order: Bar Counter, Latency Monitor, ATR.

They keep a 6 px gap and take the width of the widest box. Stacking also works in the bottom corners.



All three boxes stacked in the top-right corner

DEFAULT CORNERS

Fuse Latency Monitor and Fuse Bar Counter both start in the top-right corner, so they stack when you add them. Fuse ATR starts in the bottom-left corner, so it does not. To stack all three, set **Corner** to the same value on each indicator.

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ALERTS · COLOR AND SOUND

Know when latency turns Critical

Fuse Latency Monitor alerts you in **two ways**: a **color alert** on the chart, and an optional **sound alert**.

Color alert

Critical is the one state with a frame and a tinted background. It is meant to catch your eye while you are watching price.



Stable



Critical

The frame width (default 2 px) and the Critical background color can be changed under Appearance and Colors.

Sound alert



Alert and Appearance groups in Properties

Sound on Critical is **Off** by default. Switch it on and the sound plays at the moment the state changes **to Critical**.

Sound file — default **Alert2.wav**. Pick any .wav from the **sounds** folder of your NinjaTrader installation.

Sound cooldown (s) — default **60**. The minimum time between two sounds, so a jumpy connection doesn't ring over and over.

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REFERENCE · PROPERTIES · 1 OF 2

Properties reference

Right-click the chart → **Indicators...** → **FuseLatencyMonitor** → Properties. Defaults in **bold**.

Alert

Sound on Critical	**Off** — play a sound when the state changes to Critical (page 10).
Sound file	**Alert2.wav** — any .wav from the NinjaTrader sounds folder.
Sound cooldown (s)	**60** — minimum time between two sounds.

Appearance

Box width (px)	**150**
Frame width (px)	**2** — frame around the box in the Critical state.
Wording	**Technical** — Technical, Trading, Actionable or Short (page 7).
Content	**StatusAndLatency** — or StatusOnly, LatencyOnly (page 8).

Position

Corner	**TopRight** — TopLeft, TopRight, BottomLeft or BottomRight.
Offset X (px)	**12** — distance from the left / right chart edge (0–500).
Offset Y (px)	**12** — distance from the top / bottom chart edge (0–500).
Font size	**12** — 8 to 40. The box scales with it.
Stack with other Fuse boxes	**On** — line up with the other Fuse boxes in the same corner (page 9).

Statistics

Show min / avg / max	**Off** — adds a second line (page 8).
Measurements used	**30** — how many recent measurements the line covers (2–500).

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REFERENCE · PROPERTIES · 2 OF 2

Thresholds and colors

Thresholds

Stable above (ms)	**150** — latency at or below this value is Optimal.
Degraded above (ms)	**250**
Critical above (ms)	**400**
Sampling interval (ms)	**1000** — at most one measurement per interval; it also limits how often the box is redrawn (100–60,000).

KEEP THE THRESHOLDS IN ORDER

Set them so that **Stable < Degraded < Critical**. If the values overlap, states can be skipped.

Colors

Background	**#D814181F**
Background: Critical	**#F03A1F24**
Text	**#FFF2F4F7**
Text: secondary	**#FF9AA5B4** — the min / avg / max line.
Optimal	**#FF34C759**
Stable	**#FF1FB8A6**
Degraded	**#FFF09A2B**
Critical	**#FFE5484D** — dot and frame.
Replay	**#FF7C8CFF**
No data / Disconnected	**#FF8A97A8**

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YOU'RE SET

Measure it, see it, trade it

That's the whole indicator. Import once, add it to a chart once — and your data latency is on the chart all session.

It shows

- Live market data latency in milliseconds.
- Four states with their own colors.
- Replay, No data and Disconnected states.
- Optional min / avg / max line.
- An optional sound when latency turns Critical.

It does not

- Place, modify or cancel orders.
- Access your account.
- Measure order execution speed or network ping.
- Give trading advice or signals.

Quick troubleshooting

Not in the indicator list	Restart NinjaTrader once so compilation completes (page 3).
Shows “No data”	No live tick for 5 seconds. Check your connection and that the market is open (page 6).
Shows “Replay”	The Market Replay connection is active — no latency is measured.
Numbers look odd	The value compares your PC clock with the tick time. Synchronise the Windows clock (page 5).
Boxes overlap	The boxes are not in the same **Corner**, or **Stack with other Fuse boxes** is off (page 9).
Can't see the box	Check Corner and Offset X / Y (page 11) — it may sit under other chart elements.
No sound	Switch **Sound on Critical** on and pick a **Sound file** (page 10). The sound plays once per cooldown, only when the state changes to Critical. Check your Windows volume.

SUPPORT

Questions or feedback? Email **fuseindicators@gmail.com** — you'll hear back from the trader who built it.

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IMPORTANT INFORMATION

Risk disclosure

Risk Disclosure

Futures and forex trading contains substantial risk and is not for every investor. An investor could potentially lose all or more than the initial investment. Risk capital is money that can be lost without jeopardizing one's financial security or lifestyle. Only risk capital should be used for trading and only those with sufficient risk capital should consider trading. Past performance is not necessarily indicative of future results.

Fuse Latency Monitor is a software tool that displays information on your chart. It does not provide trading advice or signals, does not guarantee profits and cannot prevent losses. The displayed value depends on your data feed, your computer's clock and your connection. You are solely responsible for your trading decisions and results.

Screenshots

Screenshots and images in this guide are for illustration only. They show how the indicator looks and behaves on a chart; they do not show or imply trading results.

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