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Pseudo Delta NT8 [download](#)

Please, download and try the add-on before buying. Evaluation period is 12 days.
 Pseudo Delta NT8 is free for users of Buy-Sell Pressure NT8.

Add-on for *NinjaTrader 8 Trading Platform*.


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Pseudo Delta NT8 : a complement indicator to the *Buy-Sell Pressure NT8*. Plots so-called Pseudo- Δ — which calculations are based on counting of 1-minute data instead of 1-tick data as in fair 'Bid vs Ask' or 'UpTick vs DownTick' delta computations.

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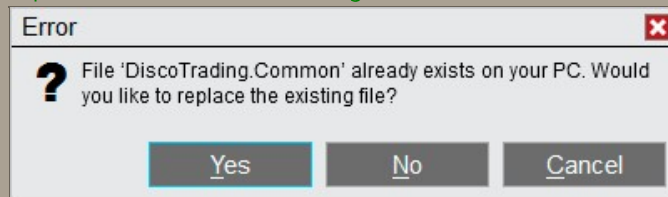
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I. Add-on [Installation/Update](#)

It is recommended to use the standard way to remove/install add-ons in NinjaTrader. The most recent versions of all add-ons are always available to download from the [homepage](#).

1. Remove previous assembly if you have one installed:
 - Run your NinjaTrader, go to the 'Tools' menu and click '*Remove NinjaScript Assembly...*' menu item.
 - In the list of installed assemblies appeared select the indicator you wish to update and press 'Remove' button.
2. Restart NinjaTrader.
3. Download the latest assembly (.zip file) from this page, from the [homepage](#) or request a direct link by email.
4. Install downloaded assembly:
 - Go to "Tools" → "Import" → "NinjaScript Add-On...", select downloaded .zip file and press "Open". Then if the installation was correct you will see the success message.
 - Restart NinjaTrader!

Note: Various Dt add-ons are relying on the same "DiscoTrading.Common.dll" library. NinjaScript Assembly contains the most recent version of the library, so you have to click 'Yes' when asked for replacement of the file during installation.



Remember, it is required to **restart NinjaTrader after add-on installation** before you can add a just installed indicator to a chart.

II. Overview

Pseudo Delta NT8 is a complement indicator to the *Buy-Sell Pressure NT8* indicator. They both are similar in conception and settings with the difference that *Pseudo Delta NT8* calculates and visualizes so-called pseudo-delta instead of "fair" common delta calculated in the *Buy-Sell Pressure NT8*.

What is Pseudo-Delta?

Pseudo-Delta computations are based on very simple counting of 1-Minute data (i.e. volume and direction of One Minute intervals, just like 1-Min Bars) with further projection of counted values to the primary chart bars, as opposed to the "common delta" calculations which are usually performed from tick-to-tick by one of the two techniques ('Bid vs Ask' or 'UpTick vs DownTick', as in *Buy-Sell Pressure* for example).

Thus, *Volume of a bullish 1-Min interval* (which Close price is higher than Close price of the previous 1-Minute interval) is considered as '*Buying Volume*' (positive)

while *Volume of a bearish 1-Min interval* (which Close price is lower than Close price of the previous 1-Minute interval) is considered as '*Selling Volume*' (negative).

If the Close price of a 1-Min interval is not changed from the previous Close price then the volume of the interval is not counted.

[Volume Pseudo-Δ] = [Volume of Bullish 1-Min intervals] minus [Volume of Bearish 1-Min intervals]

And similarly to Tick-Delta in *Buy-Sell Pressure*:

[Count Pseudo-Δ] = [Number of Bullish 1-Min intervals] minus [Number of Bearish 1-Min intervals]

As the data of 1-minute granularity is only required for Pseudo-Delta computations, the historical values of Pseudo-Delta computes much faster than the common delta calculating tick-by-tick. This makes the *Pseudo-Delta* be suitable and interesting study for higher timeframe intraday charts/long-term charts.

Applicable chart timeframes

- The *Pseudo Delta NT8* is originally intended to use on time-based intraday charts (for example: 30-Min, 120-Min Bars, etc)!
- Nevertheless it can be used on non-time-based intraday charts (such as Tick, Range, Reversal Bars and so on).
- However it is incompatible with Bars Types that tend to produce fake OHLCV data points and

internally utilize Ninja's RemoveLastBar function (like Renko).

- It is capable to work in Ninja's Tick Replay mode, but it makes no sense at all as bars are processed slower in this case. Leave Tick Replay be turned off to utilize the advantage of higher speed processing of 1-minute data vs 1-tick data.

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