TRADERSUITE · PROFESSIONAL INDICATOR SERIES

Max Pain Options Pro

The complete user guide — the options market’s pain map on your futures chart: max pain, put & call walls and the gamma-flip regime, fused with market structure into probability-scored buy & sell signals, all session long.

v4.0.0 · PRODUCT CODE MPO · tradersuite.online

GETTING ORIENTED

Contents

How to read this guide

Sections 1–8 explain what you see on the chart and why. Section 9 is a complete reference for every setting, grouped exactly as the NinjaTrader dialog shows them. Keep it open beside a chart on your instrument — every visual here mirrors what the indicator draws.

SECTION 01

What Max Pain Options Pro does

Max Pain Options Pro (MPO) models where options positioning sits around your instrument and draws it as clean levels on the chart — the max-pain magnet, the put wall below, the call wall above, and the gamma-flip line that sets the day's character. It then reads structure around those levels — demand and supply zones, liquidity sweeps and the higher-timeframe trend — and fuses everything into a single 0–100 score and a probability for each side, printing a buy or sell signal only when both clear your thresholds.

A pain map, before the noise

The options ladder is built once per session and frozen, so max pain, the walls and the gamma flip are fixed lines price can genuinely sweep, reclaim and reject — not numbers that re-fit to every bar.

Regime in one word

Below the gamma flip the tape runs faster and trends; above it, moves tend to mean-revert. The dashboard names the regime so you know which playbook applies today.

Two-sided, probability-scored

Long *and* short are scored independently. The score becomes a probability, blended with the chart's own measured hit-rate, so the number self-corrects as signals resolve.

A decision, not a command

Signals arrive with an entry, a protective stop and a target already drawn — high-information moments to act on with your own plan, never auto-entries.

Who it's for

Intraday and swing futures traders who want the options market's positioning on the chart without spreadsheets or manual drawing. Built first for the NASDAQ complex (NQ / MNQ) and tuned for index futures, it works on any liquid instrument once the strike increment is matched.

NQ / MNQ · ES / MES · YM / MYM · RTY / M2K · GC / MGC · Intraday 1–15 min · Swing / daily

A note on honesty

NinjaTrader has no live options-chain feed, so MPO's levels come from a transparent *model* of positioning, not a broker's open-interest data. They mark where reactions are *likely* — reference zones a few ticks wide, not predictions. Section 13 is explicit about this. Nothing here forecasts the future; it organises evidence so your decisions are faster and better framed. Always apply your own risk management.

SECTION 02

Installing it — step by step

Installation is the same as every TraderSuite indicator and takes about two minutes. You need NinjaTrader 8 (64-bit) and the `TS_MaxPainOptionsV4.cs` file from your purchase email or account download page.

1. **Copy the file.** Place `TS_MaxPainOptionsV4.cs` in `Documents \ NinjaTrader 8 \ bin \ Custom \ Indicators \`.
2. **Compile.** Open any NinjaScript file in the editor and press `F5`. NinjaTrader auto-generates its own boilerplate on first compile — that is normal.
3. **Add it to a chart.** Right-click the chart → `Indicators…` → find `TS_MaxPainOptionsV4` → double-click.
4. **Match the strike increment.** In `1. Options Model` set `Strike Increment $` to your instrument (25 for NQ/ES, 20 for YM, 10 for GC). Everything else works on defaults.
5. **Enter your licence key.** Open the settings, find `0. License` and paste your key. Leave it empty to run the 14-day free trial — see Section 11.
6. **Check the Output window.** New → NinjaScript Output shows a line starting `TraderSuite MPO` with your Machine Code and licence state, then `engine alive` with the computed levels.

Requirements

NinjaTrader 8 (64-bit), any recent build. Calculation runs on bar close. Best on 1–15 minute intraday charts. No internet is required — the model is local.

Moving machines?

The trial and licence tie to a stable Machine Code shown on the lock screen and in the Output window. To move machines, send your new Machine Code to support for a fresh key.

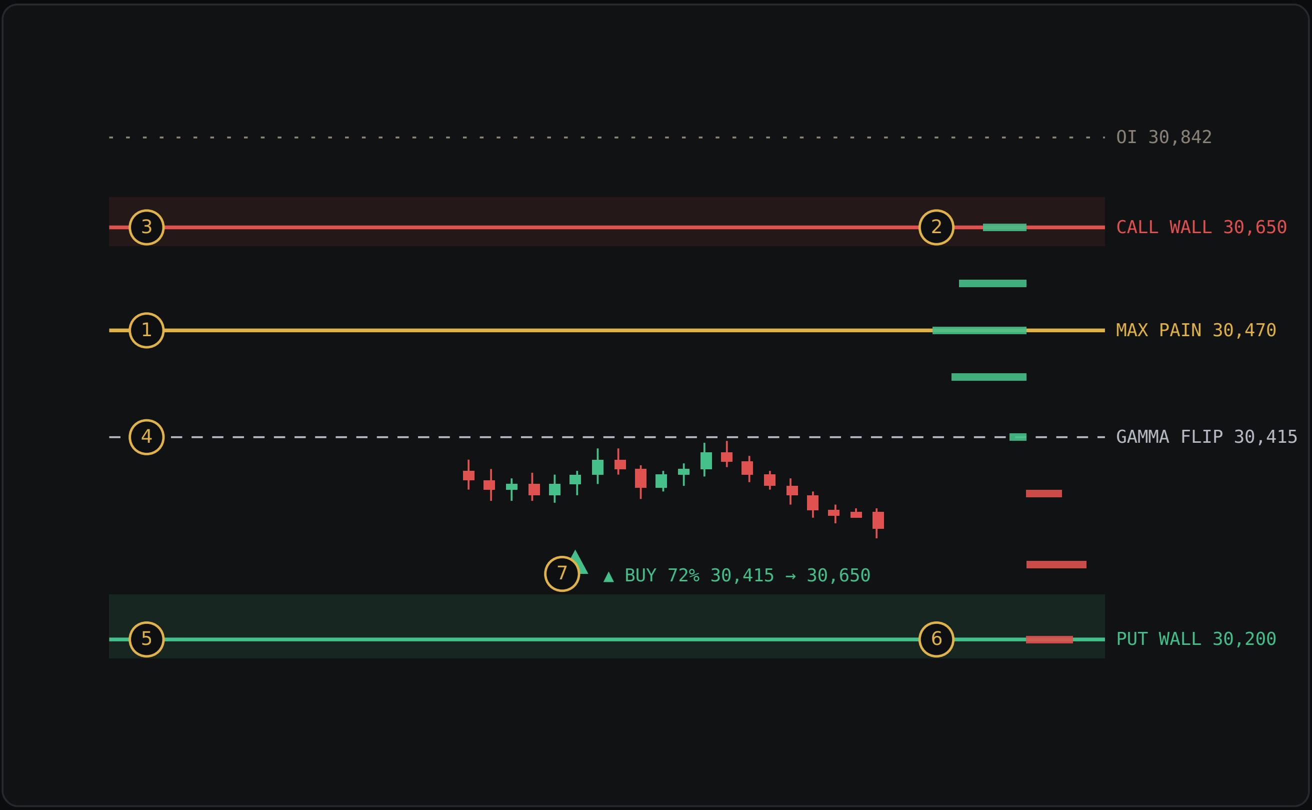
Tip — save it in a template

Once your strike increment and settings feel right, right-click the chart → `Templates` → `Save as default`, so every new chart opens ready to trade.

SECTION 03

Anatomy of the chart

Everything the indicator draws, on one screen — a typical NQ session. Each options level is a horizontal line with its name and price at the right edge. The three panels are covered in Section 8.



1. **Max Pain (gold)** the settlement price that would hurt the most open options; a magnet into expiry.
2. **Call Wall (red)** heaviest call positioning above price — a ceiling and common target.
3. **Call Wall marker** the wall repeats at the right edge as a labelled line.
4. **Gamma Flip (silver dashed)** the regime line: orderly above, faster below.
5. **Put Wall (green)** heaviest put positioning below price — a floor and support.
6. **Put Wall marker** the frozen session level price can sweep and reclaim.
7. **Buy signal** printed with entry, stop and target when score and probability agree.

Also on the chart

A faint **gamma profile** (the small green/red bars on the right) shows dealer gamma by strike; shaded **demand** (green) and **supply** (red) zones mark structure; **▲/▼ SWEEP** tags mark liquidity sweeps; and the **TRADERSUITE** brand mark sits top-left. Every one of these has its own on/off switch in Section 9.

SECTION 04

The level map

Every element the indicator draws, what it is, and how price tends to treat it. All of it appears within a few bars of loading the chart and stays fixed for the session.

Element	Drawn as	What it marks
`Max Pain`	Solid gold, thick	The price where the most open option value expires worthless. Price is often pulled toward it into the close — the day's magnet.
`Put Wall`	Solid green	Heaviest modelled put positioning below price. A floor where selling tends to slow; the buy-side reference.
`Call Wall`	Solid red	Heaviest modelled call positioning above price. A ceiling and a common long target; the sell-side reference.
`Gamma Flip`	Silver dashed	The zero-gamma line. Above it dealers dampen moves (mean-revert); below it they amplify (trend).
`Gamma Profile`	Green/red bars, right edge	Dealer gamma by strike — green above the flip, red below. Longer bars are heavier positioning.
`Demand Zone`	Green shaded box	A bullish origin: a down candle followed by a strong push up. Support until price closes below it.
`Supply Zone`	Red shaded box	A bearish origin: an up candle followed by a strong push down. Resistance until price closes above it.
`Confluence Zone`	Gold box + ★	A zone that overlaps a wall — the highest-quality structure the tool marks.
`Sweep tag`	▲/▼ SWEEP	A liquidity sweep: price traded through a frozen wall and closed back through it.
`Signal`	▲/▼ + %	A buy or sell trigger, printed with its probability, entry, stop and target.

Where the numbers come from

The ladder is a *model*, anchored once per session to the session open (Section 5). Strikes span `Strike Range %` either side of that anchor at your `Strike Increment`. Open interest is weighted by distance and skewed put-heavy below / call-heavy above — that skew is what creates a real gamma flip.

Vacuum zones — read the gaps too

The space *between* levels matters as much as the levels. Where lines cluster, price grinds. Where a wide gap sits between two levels, price can travel it fast — big candles, little resistance. Plan size and stops for the gap behind the level you are trading.

SECTION 05

The options model — how the levels are built

MPO builds a synthetic options ladder because NinjaTrader has no chain feed. Understanding the four steps makes every level readable — and makes clear why the settings in Section 9 do what they do.

1. **Anchor once per session.** At each new session the ladder is rebuilt around the session **open** and then frozen. Every level is a fixed line for the rest of the day — so a “sweep” or “reclaim” is a real event, not an artefact of re-fitting.
2. **Lay the strikes.** Strikes are placed every `Strike Increment $` across `Strike Range %` either side of the anchor, up to `Number of Strikes`.
3. **Weight the open interest.** Each strike gets modelled call and put OI: a baseline scaled by `Avg Daily Volume`, thinned with distance by `OI Spread` and `OI Decay`, tilted by `Put/Call Ratio`, and skewed put-heavy-below / call-heavy-above by `OI Skew Strength`.
4. **Compute the levels.** From that ladder MPO finds **max pain** (the minimum-payout strike), the **put** and **call walls** (heaviest OI each side), dealer **gamma** per strike, and the **gamma flip** where net gamma crosses zero.

Long gamma — above the flip

Dealers are net long gamma and hedge *against* moves: rallies get sold, dips get bought. Ranges hold, walls stick, mean-reversion works.

Short gamma — below the flip

Dealers are net short gamma and hedge *with* moves: selling begets selling. Momentum runs, breakouts extend — respect the trend.

Why max pain is a magnet

Option sellers profit most if price finishes where the fewest options pay out. As expiry nears, hedging flows tend to nudge price toward that max-pain strike. MPO draws it in gold because, on quiet days, it is the level price gravitates back to.

SECTION 06

Smart money — demand, supply & liquidity sweeps

The options levels say *where*; market structure says *whether the level is being defended*. MPO tracks three structural reads and folds them into the score.

Demand & supply zones

A demand zone is a down candle followed by a strong push up — the origin of buying. A supply zone is the mirror. Zones stay active until price closes through them, and expire after `Zone Lookback × 3` bars.

Confluence is king

When a demand zone overlaps the put wall (or a supply zone overlaps the call wall) it is marked gold with a ★. Overlap adds bonus score — two independent reasons pointing the same way.

Liquidity sweeps

Because the walls are frozen for the session, a sweep is unambiguous. A **buy-side sweep** is price trading *below* the put wall (running stops) and then *closing back above it* — a failed breakdown. A **sell-side sweep** is the mirror at the call wall. A sweep is "fresh" for `Sweep Confirm Bars`, when it carries full weight in the score; after that it fades. A decisive close beyond the wall cancels the sweep — that was a real break, not a trap.

The higher-timeframe trend

A simple EMA (`Trend EMA Period`) gives the directional backdrop. Longs score better above it, shorts below it. It is a filter, not a signal — it tilts the odds, it does not fire on its own.

SECTION 07

The signal engine — score, probability & outcomes

Every bar, MPO scores the long case and the short case independently, converts each score to a probability, and fires a signal only when a side clears both your score and probability thresholds and its cooldown has elapsed.

1 · The score (0–100)

Each ingredient adds points to the side it favours. The weights are all adjustable in Section 9; the defaults are shown here.

Ingredient	Adds	When it counts
`Wall proximity`	20	Price at or through the relevant wall (put wall for longs, call wall for shorts).
`Zone`	20 (+10)	Price in or near a demand/supply zone. +10 more when the zone overlaps a wall.
`Liquidity sweep`	20	A fresh sweep in the trade's direction; half weight once it ages.
`Short-gamma regime`	10	Price below the gamma flip — moves are amplified, both sides.
`HTF trend`	15	Trend EMA agrees with the trade direction.
`Max-pain magnet`	15	Max pain sits in the trade's direction from price.

2 · The probability

The score is passed through a logistic curve to a base probability, then **blended with the chart's own measured hit-rate** — how often past signals reached target before stop. Early on, the model dominates; as signals resolve, the real record takes over. The panel shows the running tally as `Hits L 12/19  S 8/14`.

3 · Firing & outcomes

A signal fires when `score ≥ Min Score` and `probability ≥ Min Probability %`, and at least `Signal Cooldown` bars have passed since the last same-side signal. If both sides qualify, the higher probability wins. Each signal is then tracked to target or stop; if neither is hit within `Signal Max Bars` it is scratched and excluded from the hit-rate.

Stops are counted conservatively

If a bar could have hit both the stop and the target, the outcome is recorded as the *stop*. The measured hit-rate is therefore a floor, not a flattered number — deliberately.

SECTION 08

The panels

Three read-outs keep every number in one place. All are brand-styled, update live, and can be toggled off individually in Section 9.

MAX PAIN PRO

MPO v4.0.0

MAX PAIN PRO · MPO

Price	30,441.75
Session Anchor	30,300
Max Pain	30,470
Put Wall	30,200
Call Wall	30,650
Gamma	SHORT GAMMA
Trend	BULLISH
Sweep	BUY-SIDE
License	LICENSED

The dashboard (top-right) is your session summary.

- **Price / Session Anchor** — live price and the frozen anchor the ladder was built on.
- **Max Pain / Put Wall / Call Wall** — the three headline levels.
- **Gamma** — SHORT (amplify) or LONG (dampen) regime.
- **Trend** — the HTF EMA backdrop.
- **Sweep** — an active buy- or sell-side sweep, or NONE.
- **License** — TRIAL, LICENSED or ADMIN, with trial days remaining.

LONG 72% score 78 SHORT 38% score 41

GOOD LONG CONDITIONS

Hits L 12/19 S 8/14

★ BUY SIGNAL — 72% probability

AT PUT WALL | ★ CONFLUENCE ZONE | Trend: BULL | Short Gamma

LONG ENTRY 30,415 | STOP 30,180 | TARGET 30,650

The score panel shows both sides at once — the long and short probability, each side's raw score, the quality label, and the running hit tally. When a signal is live the border turns gold.

The analysis bar (bottom) narrates the current read in three lines: the headline status, the conditions in play, and the exact entry / stop / target when a setup is valid.

Reading it at a glance

Regime tells you the playbook; the score panel tells you which side and how strong; the analysis bar gives the actionable numbers. If the dashboard says SHORT GAMMA and BUY-SIDE sweep with a LONG signal at the put wall, every read agrees — that is the setup the tool is built to find.

SECTION 09

Settings reference

Every option, named and grouped exactly as it appears in the NinjaTrader indicator dialog. Defaults are shown; the range in grey is the allowed span.

0. License

Option	Default	What it does
`License Key`	`(empty)`	Paste your TraderSuite key here. Leave empty to run the 14-day free trial. Shown on the panel as TRIAL / LICENSED / ADMIN.

1. Options Model

Option	Default	What it does
`Number of Strikes`	`20`	How many strikes the modelled ladder holds. `1–50`
`Days to Expiration`	`7`	The expiry horizon used in the gamma maths — smaller = sharper gamma flip. `1–60`
`Include Weekly Effects`	`On`	Boosts near-dated positioning weight when Days to Expiration ≤ 7.
`Strike Range %`	`10.0`	Half-width of the ladder around the session anchor, as a % of price. `5–20`
`Strike Increment $`	`25.0`	Spacing between strikes. Match the instrument: 25 NQ/ES, 20 YM, 10 GC. `0.01–500`
`Avg Daily Volume`	`1,000,000`	Scales the baseline modelled open interest. `100k–100M`
`Put/Call Ratio`	`1.2`	Puts vs calls weighting. Above 1 is put-heavy, typical of index options. `0.1–5.0`
`OI Spread Factor`	`12.0`	How quickly modelled OI thins moving away from the anchor. `1–50`
`OI Decay Factor`	`22.0`	Additional exponential decay of OI with distance. `1–100`
`Implied Volatility %`	`30.0`	IV used in the dealer-gamma calculation. `5–150`
`MM Inventory Factor`	`0.7`	Market-maker inventory weighting added on top of the OI baseline. `0.1–2.0`
`Gamma Hedging Strength`	`1.0`	Scales the magnitude of modelled dealer gamma. `0.1–3.0`
`Dealer Short Gamma Bias`	`0.6`	Extra tilt toward dealers being short gamma. `0.1–1.5`
`OI Skew Strength`	`0.8`	Puts-heavier-below / calls-heavier-above the anchor. This is what creates the gamma flip — set to 0 and the flip disappears. `0.0–3.0`

Smart money, signals & scoring

2. Smart Money

Option	Default	What it does
Zone Lookback	50	Warm-up bars and the zone-age horizon (zones expire after this × 3). 10–200
Zone Min Move %	1.0	Minimum thrust off a candle for it to qualify as a demand/supply zone. 0.3–5.0
Sweep Confirm Bars	3	How many bars a sweep stays “fresh” and carries full score. 1–10
Trend EMA Period	50	The higher-timeframe trend filter length. 10–200

3. Signals & Scoring

Option	Default	What it does
Wall Weight	20	Points for price at the relevant wall. 0–50
Zone Weight	20	Points for price in or near a demand/supply zone. 0–50
Sweep Weight	20	Points for a fresh liquidity sweep in the trade direction. 0–50
Gamma Weight	10	Points for the short-gamma regime. 0–50
Trend Weight	15	Points for the HTF trend agreeing with the trade. 0–50
Max Pain Magnet Weight	15	Points when max pain sits in the trade’s direction. 0–50
Min Score for Signal	60	Score a side must reach to fire a signal. 30–100
Min Probability %	65	Probability a side must reach to fire. 50–95
Signal Cooldown (bars)	10	Minimum bars between two same-side signals. 1–100
Signal Max Bars	60	Bars a signal has to reach target or stop before it is scratched. 10–500

Choosing the strike increment

Your chart	Strike Increment	Notes
NQ / MNQ	25	Recommended starting point.
ES / MES	25	The deepest index options market.
YM / MYM	20	Dow.
RTY / M2K	10	Small caps.
GC / MGC	10	Gold.

Display & theme colours

4. Display

Option	Default	What it does
Show Dashboard	On	The top-right session summary panel.
Show Max Pain Line	On	The gold max-pain line and label.
Show Wall Levels	On	The put wall and call wall lines.
Show Zero Gamma	On	The gamma-flip line.
Show Gamma Profile	On	The green/red gamma bars on the right edge.
Show Demand/Supply Zones	On	The shaded structure boxes.
Show Buy/Sell Signals	On	The signal arrows and probability labels.
Show Entry/Stop/Target Lines	On	The three dashed lines for a live signal.
Show Analysis Panel	On	The bottom narration bar.
Show Score Panel	On	The long/short probability panel.
Show TraderSuite Logo	On	The brand mark, top-left.

5. Theme Colors

Option	Default	Applies to
Accent Gold	Gold	Max pain line, panel borders and the brand mark.
Background	Near-black	Panel fills.
Text	Off-white	Primary panel text.
Muted Text	Warm grey	Secondary panel text.
Bullish	Green	Put wall, buy signals, positive gamma.
Bearish	Red	Call wall, sell signals, negative gamma.
Demand Zone	Teal-green	Demand zone fill.
Supply Zone	Dark red	Supply zone fill.
Zero Gamma	Silver	The gamma-flip line.

SECTION 10

Strategy Builder integration

MPO exposes two hidden plots so your own strategies and autotraders can read the engine directly, with no chart scraping.

Plot	Value	Meaning
`Signal`	+1	A buy signal fired on this bar.
`Signal`	-1	A sell signal fired on this bar.
`Signal`	0	No signal this bar.
`Probability`	0–100	The winning side's probability, each bar.

```
// Read the MPO engine from a strategy (values update on bar close)
var mpo = TS_MaxPainOptionsV4(/* your inputs */);
if (mpo.Signal[0] == 1 && mpo.Probability[0] >= 70)
  EnterLong();
else if (mpo.Signal[0] == -1 && mpo.Probability[0] >= 70)
  EnterShort();
```

A note on modes

The indicator calculates on bar close, so the plots update once per closed bar. Use the same value on the same bar in your strategy — do not expect intrabar signal changes.

SECTION 11

Licensing & activation

MPO runs a 14-day free trial on first use, then needs a TraderSuite licence key. The check is local — no internet is required to run the indicator.

1. **Add it to a chart.** On first load the trial starts automatically and the panel shows `TRIAL (14d left)`.
2. **Find your Machine Code.** It is on the lock screen and in New → NinjaScript Output, on the line starting `TraderSuite MPO` — e.g. `BCE4-603F-1D05`.
3. **Get a key.** Send that Machine Code to `completetradersuite@gmail.com` or buy at tradersuite.online. You'll receive a key tied to that machine.
4. **Enter it.** Paste the key into `0. License → License Key` and click OK. The panel turns `LICENSED`.

Licence states you may see

Panel shows	Meaning
`TRIAL (Xd left)`	Free trial running; days remaining shown.
`LICENSED`	Valid key, activated on this machine.
`ADMIN`	Administrator master key (support / testing).
`EXPIRED`	Trial ended and no valid key — the lock screen shows your Machine Code and site.

If the trial expires

The chart shows a clean lock panel with your Machine Code and tradersuite.online. The levels stop drawing until a key is entered — nothing else on your platform is affected.

SECTION 12

Trading with it — a workflow

A simple, repeatable way to use the map. This is an educational framework, **not financial advice** — always apply your own plan and risk limits.

1. **Read the regime first.** The dashboard's Gamma row sets the playbook: SHORT gamma — trade momentum, respect breaks; LONG gamma — fade edges, trust the walls.
2. **Locate price on the map.** Where is price against max pain, the put wall and the call wall? Those are your magnet and your two boundaries.
3. **Wait for the level to be tested.** The best signals come at a wall or a zone — especially a gold confluence zone, or right after a liquidity sweep.
4. **Take the signal with its levels.** When the arrow prints, it carries entry, stop and target. Check the probability and that the trend agrees, then act on your own plan.
5. **Manage to the map.** The target is the opposite wall or max pain. Trail or bank into it; a close back through your level means the idea failed — out, no arguing.

Confluence is king

The strongest setups stack reasons: a sweep *and* a confluence zone *and* the trend *and* short gamma, all pointing one way. That is the A+ trade.

Avoid

Fading a fresh break beyond a wall · buying into the call wall · trading the thin first minutes before the ladder settles · ignoring a red hit-tally on the panel.

SECTION 13

What this indicator is not

Honesty keeps you out of trouble. Read this once.

Not a live options feed

The ladder is a transparent model, not a broker's open interest. It shows where positioning *likely* sits, tuned by the Options Model settings.

Not a prediction

Levels and signals mark *likely* reaction points and high-probability conditions. They are evidence, not certainty. Markets can and do ignore any level.

Not an auto-trader

MPO draws and scores; it never places orders. The Strategy Builder plots let you build your own automation, with your own risk controls.

Not for illiquid symbols

The model assumes an index-style options market. On thin instruments the levels lose meaning — treat them with caution or not at all.

Risk warning

Trading futures and options involves substantial risk of loss and is not suitable for every investor. Past performance and modelled levels do not guarantee future results. Nothing in this guide is financial advice. You alone are responsible for your trading decisions.

SECTION 14

Troubleshooting & FAQ

The quick fixes for the questions we get most.

Nothing draws on the chart.

Open New → NinjaScript Output. It prints a `TraderSuite MPO` licence line and then `engine alive` with the levels. If you see an error line instead, it names the cause. Make sure the chart has more than ~30 bars loaded.

The walls or max pain look wrong for my instrument.

Set `Strike Increment $` to match — 25 for NQ/ES, 20 for YM, 10 for GC. A mismatched increment collapses or spreads the ladder.

The gamma-flip line is missing.

It only draws when net gamma changes sign across the ladder. If `OI Skew Strength` is 0 there is no flip — raise it back toward the default 0.8.

Too many or too few signals.

Raise `Min Score` and `Min Probability %` for fewer, higher-quality signals; lower them for more. `Signal Cooldown` also throttles frequency.

Live signals don’t match my backtest.

MPO calculates on bar close. Keep the data series and settings identical, and compare bar-for-bar — not intrabar.

How do I move it to a new PC?

Load it there, read the new Machine Code from the panel or Output window, and send it to support for a fresh key.

Can I change the colours?

Yes — the whole theme is in `5. Theme Colors`. Changing a colour does not force a reload.

Still stuck?

Email `completetradersuite@gmail.com` with your Machine Code, instrument and a screenshot of the Output window. That is everything needed to help fast.

SECTION 15

Changelog

Version history for Max Pain Options Pro.

Version	Date	Notes
`4.0.0`	Aug 2026	First TraderSuite release. Session-anchored options ladder; corrected max-pain payoff maths; moneyness-skewed OI producing a real gamma flip; demand & supply zones; two-sided liquidity sweeps; probability-scored buy/sell signals with measured hit-rate; Strategy Builder plots; 14-day trial licensing; TraderSuite theme.

Support & contact

Questions, keys and feedback: `completetradersuite@gmail.com` · tradersuite.online · Product code MPO · TS_MaxPainOptionsV4 v4.0.0.