Pteroz FOREX Trader

1. General Overview

Pteroz FOREX Trader is a Forex-focused trading indicator designed exclusively for the D1 timeframe.

The indicator works directly on the price chart and automatically identifies BUY and SELL trading structures for the selected Forex pair. Instead of applying one universal signal rule to all markets, Pteroz FOREX Trader analyzes the current market structure of each pair and searches for recurring BUY and SELL conditions that meet predefined quality requirements.

The indicator displays selected BUY and SELL signals directly on the chart and provides a compact performance table in the lower-right corner of the chart.

Current intended use:

- Forex pairs only
- D1 timeframe only
- BUY and SELL signals evaluated separately
- Default lookback: 252 daily bars
- Default test setup: 50 pips TP / 60 pips SL / 10 bars to target
- Default minimum success rate: 70%
- Default minimum completed trades: 20

If the chart is not opened on the D1 timeframe, the indicator should not be interpreted as operational.

Chart signals are displayed with fixed color logic:

- Green BUY marker — BUY signal that reached the target successfully under the test conditions, or a recent pending BUY signal that is not yet fully evaluated.
- Red SELL marker — SELL signal that reached the target successfully under the test conditions, or a recent pending SELL signal that is not yet fully evaluated.
- Blue marker — Dirty Win. The signal eventually reached the target, but only after the adverse threshold was reached first.
- Dark gray / black marker — Failed signal. The signal did not reach the target under the test conditions.

2. Back Tests and Results Table

The table summarizes how the automatically selected BUY and SELL structures performed during the selected lookback period.

By default, the indicator evaluates the latest 252 D1 bars, which approximately represents one trading year. The user may adjust the lookback period to check whether the selected structure remains stable over shorter or longer samples.

The table includes the test setup:

- Lookback period
- Take Profit in pips
- Stop Loss in pips
- Maximum bars allowed to reach target
- Minimum required success rate
- Minimum required number of completed trades

Signals are evaluated from the close of the signal candle.

A Clear Win is a completed signal where price reaches the target within the allowed number of bars without first reaching the adverse threshold.

A Dirty Win is a signal where price eventually reaches the target, but only after the adverse threshold was reached first. Dirty Wins are shown separately and are not counted as Clear Wins.

A Failed signal is a completed signal that does not reach the target under the test conditions.

A Pending signal is a recent signal that does not yet have enough future bars to be fully evaluated. Pending signals are not included in Total Trades.

Success rate is calculated as:

Clear Wins / Total Completed Trades

This means Dirty Wins and Pending signals are not counted as successful trades in the displayed success rate.

How Optimizer Settings Affect Results

The result shown in the table depends on the selected test settings. Changing these settings may change the selected BUY or SELL structure, the number of trades, the success rate, or whether any valid structure is found at all.

The lookback period defines the historical sample used for testing and structure selection. It is not only a display window. It is also the sample on which the indicator evaluates whether a BUY or SELL structure is strong enough to pass the selected filters.

A shorter lookback focuses more on recent market behavior. This may be useful when market structure has recently changed, but it can also produce a smaller sample. If the number of completed trades becomes too small, the result may become statistically weak.

A longer lookback gives a broader robustness check. However, Forex market structure is dynamic. A very long lookback may include older market conditions that no longer represent the current behavior of the pair.

The minimum success rate defines the required historical accuracy threshold. A higher minimum success rate makes the optimizer more selective. This can improve quality filtering, but it may also reduce the number of valid structures or lead to “No valid BUY structure” or “No valid SELL structure.” A lower minimum success rate allows more structures to pass, but with weaker historical performance requirements.

The minimum completed trades setting is important for meaningful sample size. A high success rate based on only a few trades can be misleading. For example, 80% success based on 5 completed trades is much less meaningful than 72% success based on 25 completed trades. For this reason, the indicator uses a minimum completed-trade filter to avoid relying on very small samples.

Bars to Target defines how many candles price has to reach the Take Profit after a signal appears. A smaller value requires faster price movement and may reduce the number of successful signals. A larger value gives price more time to reach the target, but it may also change the nature of the tested structure and increase the number of pending signals.

Because of these relationships, the table should be interpreted as a structured test result, not as a simple signal counter. The indicator searches for recurring structures that satisfy the selected quality conditions.

If the table shows “No valid BUY structure” or “No valid SELL structure”, it does not necessarily mean that no raw signals existed. It means that no structure passed the current minimum quality filters for that direction.

Meaningful Sample Size

When interpreting the table, users should always consider the number of completed trades together with the success rate.

A higher success rate is more meaningful when it is supported by a reasonable number of completed trades. A small sample can look attractive but may not provide enough evidence that the structure is reliable.

For this reason, the default minimum completed trades setting is intended to protect users from over-interpreting results based on too few signals.

As a practical principle:

- Higher success rate + reasonable trade count = stronger historical evidence.
- High success rate + very small trade count = weaker evidence.
- Lower success rate + large trade count = broader sample, but weaker accuracy.
- No valid structure = no setup passed the selected filters under the current settings.

3. Indicator Mechanics

Pteroz FOREX Trader is based on a proprietary market-structure and pressure-analysis methodology.

The internal engine analyzes directional pressure, market structure, continuation potential, reversal potential, realization of pressure, absorption behavior, expansion quality, and other proprietary structural characteristics. These internal values are used to identify recurring conditions where historical price behavior has shown sufficient probability of reaching the defined target under the selected test rules.

The exact pressure formula, internal scoring logic, weighting methods, and signal-selection architecture are proprietary and are not disclosed for commercial protection.

The indicator does not simply display every possible BUY or SELL condition. It searches for structures that satisfy minimum historical performance requirements. This is important because Forex pairs may behave differently from each other, and BUY and SELL structures are often asymmetric even within the same pair.

Market structure is dynamic. A structure that performs well over one lookback period may become weaker over another. For this reason, the lookback setting should be understood not only as a display window, but also as the sample used for evaluating structural quality.

The default 252-bar lookback is intended as the balanced setting. Shorter lookbacks may better reflect recent market behavior but can produce smaller samples. Longer lookbacks may provide a broader robustness check but can include older market conditions that may no longer represent the current structure.

4. Disclaimer

Pteroz FOREX Trader is an analytical and decision-support tool. It is not financial advice, investment advice, or a guarantee of future results.

All displayed signals and statistics are based on historical chart data and predefined test conditions. Historical performance does not guarantee future performance.

Forex trading involves risk. Users should apply their own analysis, risk management, position sizing, and independent judgment before making any trading decision.

Broker feeds may differ. Differences in price data, candle structure, spreads, and historical candles may affect signals and back-test results.

The indicator should be used only on Forex pairs and only on the D1 timeframe unless future versions explicitly support additional assets or timeframes.