



Pricewerk-TurtleSoup Indicator

User Manual

A practical guide to the calibration-focused Turtle Soup signal indicator.

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Indicator file	Pricewerk-TurtleSoup_Indicator.mq5
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Important	The indicator does not place orders. It provides signals and a manual trade plan.

The indicator marks manual Turtle Soup setups: structure level first, then sweep, then reclaim, then trade plan. A pure breakout is not a signal.



1. Quick Start

- Place Pricewerk-TurtleSoup_Indicator.ex5 into MQL5/Indicators.
- Restart MetaTrader 5 or refresh the Navigator.
- Attach the indicator to the chart.
- Keep UseSmartMarketPreset and UseBuiltinPresetBank enabled by default.
- Watch the status/guidance panel and trade only after confirmed reclaim.
- Use Recalibrate only as fine-tuning when the preset should be adjusted.

2. Strategy and Display

- The indicator searches for a relevant structure high or low.
- Price must sweep that level.
- Price must reclaim the level afterwards.
- The indicator draws entry, SL, TP1/TP2/TP3 and the Sweep Level.
- The trader checks context, spread, news and execution manually.

Chart lines are a manual trade plan, not automatic orders. The LONG or SHORT text is placed at the planned entry level.

3. What changed since the old version

- The menu was reduced to Auto Calibration, Result Quality, Display and Alerts & Export.
- A built-in preset bank covers Gold, EURUSD, Nasdaq, DAX, Bitcoin, GBPUSD and USDJPY on M5, M15, M30, H1 and H4.
- Calibration fine-tunes around the matching preset and keeps the preset if no clearly better profile is found.
- The order block logic was removed because it blocked too many good Turtle Soup setups.
- Session lines are disabled by default.
- Confirmed signals can be exported through Terminal Global Variables for a separate execution utility.

What calibration evaluates

Calibration tests variants around the current preset. It evaluates structure levels, swing strength, sweep distance, reclaim window, stop buffer, TP1-R, win rate, AvgR, Profit Factor, max drawdown, Recovery Factor, out-of-sample behavior, stability, losing streaks and a sufficient but not excessive signal count.



4. Selection Values

ENUM_REFERENCE_LEVEL_MODE_TS

Value	Name	Meaning
0	Pivot	Uses confirmed swing highs and swing lows.
1	HighestLowest	Uses the highest high and lowest low over a lookback window.
2	PreviousDay	Uses the previous day's high and low.
3	PreviousWeek	Uses the previous week's high and low.
4	AsiaSession	Uses the last completed Asia session high and low.
5	LondonSession	Uses the last completed London session high and low.
6	NewYorkSession	Uses the last completed New York session high and low.
7	StructureLiquidity	Uses structure-relevant liquidity levels. This is the current preset and calibration baseline.

ENUM_ENTRY_CONFIRMATION_MODE_TS

Value	Name	Meaning
0	CloseConfirmation	The reclaim is confirmed after candle close.
1	IntrabarTouch	The reclaim can be confirmed intrabar. Best used only with high-quality tick data.

ENUM_STOP_LOSS_MODE_TS

Value	Name	Meaning
0	SweepExtremeWithATRBuffer	Places the stop beyond the sweep extreme plus an ATR buffer.
1	LastSwingWithATRBuffer	Places the stop beyond the last swing plus a buffer.
2	ReferenceLevelWithBuffer	Places the stop beyond the reference level plus a buffer.
3	ATRBasedStop	Uses an ATR-based stop distance.
4	FixedPointsStop	Uses a fixed stop distance in points.

ENUM_TAKE_PROFIT_MODE_TS

Value	Name	Meaning
0	FixedRR	Calculates targets from a fixed risk/reward ratio.
1	NextLiquidityTarget	Targets the next detected liquidity level.
2	PreviousDayTarget	Targets the previous day high or low.
3	PreviousWeekTarget	Targets the previous week high or low.
4	ATRBasedTarget	Calculates targets from ATR distance.
5	HybridTarget	Uses liquidity targets when they are useful, otherwise fixed RR.

ENUM_TREND_FILTER_MODE_TS

Value	Name	Meaning
0	PriceVsEMA	Price must be on the correct side of the EMA.
1	EMAStructure	Fast EMA and slow EMA must support the trade direction.
2	PriceAndEMAStructure	Price position and EMA structure must both agree.



ENUM_CALIBRATION_PROFILE_TS

Value	Name	Meaning
0	CalibrationConservative	Stricter profile with fewer but higher-quality signals.
1	CalibrationBalanced	Balanced default between win rate, AvgR and signal count.
2	CalibrationAggressive	Allows more signals. Use only when the market produces many clean reclaims.

ENUM_CALIBRATION_STYLE_TS

Value	Name	Meaning
0	CalibrationScalp	Short-term mode with tighter targets and more focus on win rate.
1	CalibrationIntraday	Default style for M15 to H1: balanced signal quality, R target and frequency.
2	CalibrationSwing	Stricter structure-focused mode for M30 to H4 and larger market moves.

ENUM_CALIBRATION_DEPTH_TS

Value	Name	Meaning
0	CalibrationQuick	Fast check with fewer variants.
1	CalibrationStandard	Recommended default depth.
2	CalibrationDeep	Deeper check with more history and more variants. Takes longer.



5. Complete Settings

01 - Auto Calibration

Controls automatic market/timeframe presets and optional fine-tuning.

Parameter	Default / options	What it does	Practical use
UseSmartMarketPreset	bool Default: true	Detects symbol and timeframe and selects a suitable market logic.	Keep enabled. EURUSD M5 is treated more like a scalp environment, while Gold M30 is treated more like intraday/swing.
UseBuiltinPresetBank	bool Default: true	Activates the internal preset bank for common markets and timeframes.	Keep enabled. The preset bank is the robust starting point; calibration should only fine-tune it.
UseAutoCalibration	bool Default: true	Allows the indicator to load and use saved calibration profiles.	Keep enabled if you want a calibrated chart to start with the same profile after reloads or timeframe changes.
ShowCalibrationButton	bool Default: true	Shows the Recalibrate button in the status area.	Use it when the built-in preset should be adjusted to the current chart.
CalibrationProfile	ENUM_CALIBRATION_PROFILE_TS Default: CalibrationBalanced 0 = CalibrationConservative 1 = CalibrationBalanced 2 = CalibrationAggressive	Sets the calibration attitude: conservative, balanced or aggressive.	Balanced is the default. Conservative means fewer signals. Aggressive should be used only deliberately.
CalibrationStyle	ENUM_CALIBRATION_STYLE_TS Default: CalibrationIntraday 0 = CalibrationScalp 1 = CalibrationIntraday 2 = CalibrationSwing	Sets the trading style: scalp, intraday or swing.	With Smart Market Preset enabled, the indicator chooses a suitable style automatically.
CalibrationDepth	ENUM_CALIBRATION_DEPT_H_TS Default: CalibrationStandard 0 = CalibrationQuick 1 = CalibrationStandard 2 = CalibrationDeep	Controls how deeply the calibration searches.	Standard is the daily-use setting. Deep can improve validation but takes longer.
CalibrationLookbackBars	int Default: 2500	Number of historical bars used for normal calibration.	More bars can make the result more stable but increases calculation time.
CalibrationMaxCandidates	int Default: 160	Maximum number of profile variants to test.	More candidates create a broader search but slower calibration.
CalibrationBatchPerTimer	int Default: 8	Number of candidates processed per timer step.	Lower values keep MT5 more responsive; higher values can finish faster.
UseFastCalibration	bool Default: true	Enables the faster calibration mode when appropriate.	Keep enabled, especially on M5/M15 or large history windows.
FastCalibrationMaxCandidates	int Default: 140	Maximum candidate count in fast mode.	A practical balance between speed and quality.
FastCalibrationLookbackBars	int Default: 1800	Historical bars used in fast mode.	Reduce this if calibration becomes too slow.

02 - Result Quality

Defines the minimum quality and statistics required before a profile is accepted.

Parameter	Default / options	What it does	Practical use
StatisticsLookbackSignals	int Default: 100	Number of recently closed signals used for the visible dashboard statistics.	100 is useful because the dashboard is not dominated by very old market phases.



Parameter	Default / options	What it does	Practical use
CalibrationMinSignals	int Default: 20	Minimum number of closed signals required for a candidate to be evaluated.	Too low can be random; too high can prevent profiles on quiet markets.
CalibrationTargetSignals	int Default: 60	Preferred number of signals within the calibration window.	Calibration prefers enough trades, but not simply the most trades.
CalibrationMaxSignals	int Default: 160	Upper signal-count limit within the calibration window.	Protects against overactive profiles with too many weak micro setups.
CalibrationMinWinRatePercent	double Default: 55.0	Minimum win rate targeted by robust profiles.	The current priority is win rate first, then AvgR and Profit Factor.
CalibrationPreferredTP1_R	double Default: 1.2	Preferred R value for TP1.	TP1 may be 1R if win rate is strong enough; this value defines the preferred middle ground.
CalibrationMinTP1_R	double Default: 1.0	Minimum allowed TP1 distance in R.	1.0 means TP1 should be at least as far away as the risk.
CalibrationMinProfitFactor	double Default: 1.05	Minimum Profit Factor for robust profiles.	Helps avoid profiles with many wins but poor payoff versus losses.
CalibrationMinWinRateEdgePercent	double Default: 3.0	Minimum win-rate edge over a neutral expectation.	Helps avoid profiles that are statistically too close to random.
MinStructureSwingBars	int Default: 10	Minimum width of a structure swing in candles.	Increase this to filter micro swings and focus on more relevant market structure.
MinStructureSwingStrengthATR	double Default: 1.0	Minimum swing strength measured in ATR.	Increase this if too many small or structureless sweeps are shown.
StructureLookbackBars	int Default: 400	Lookback window for structure-relevant liquidity levels.	More bars can find larger older levels; fewer bars react faster to the current market.
MinStructureLevelScore	double Default: 72.0	Minimum score a structure level must reach.	One of the most important quality filters. Higher means fewer but stronger levels.
MinStructureLegATR	double Default: 2.8	Minimum size of the move that created the level.	Filters small sideways swings and favors real market structure.
MinStructureDisplacementATR	double Default: 1.8	Minimum displacement away from the structure level.	A good Turtle Soup level should have created visible reaction or movement before it is swept.
MinStructureCloseDisplacementATR	double Default: 0.9	Minimum close-based displacement.	Prevents a single wick from being treated as strong structure.
MajorStructureWindowBars	int Default: 40	Window used to check whether a level is one of the dominant structure points.	Higher values make the selection stricter and focus on larger structure.
MaxStrongerStructuresInWindow	int Default: 0	How many stronger levels may exist inside the comparison window.	0 is strict: the level should be among the most important in its window.
StructureLevelToleranceATR	double Default: 0.15	ATR-based tolerance for nearby structure levels.	Helps treat nearby levels as a zone instead of many tiny micro levels.
MinBarsBetweenLevelAndSweep	int Default: 18	Minimum number of candles between level creation and sweep.	Prevents immediate micro breaks from becoming Turtle Soup signals.
CalibrationRequirePositiveOOS	bool Default: true	Requires the profile to remain positive in the out-of-sample section.	Keep enabled. It reduces curve fitting.
CalibrationAllowFallbackProfile	bool Default: true	Allows a usable fallback profile if no perfect robust profile is found.	Keep enabled so the indicator does not remain unnecessarily inactive.
MinTP1DistanceATRMultiplier	double Default: 0.25	Minimum distance between entry and TP1 relative to ATR.	Protects against visually attractive but practically too-small targets.

03 - Display

Controls chart appearance, status panels, reference levels, historical signals and optional session lines.



Parameter	Default / options	What it does	Practical use
ApplyColorOnWhiteScheme	bool Default: true	Automatically applies the bright Pricewerk chart color scheme.	Creates consistent candle, volume, line and label appearance.
ShowStatusPanel	bool Default: true	Shows the compact status dashboard in the upper-left chart area.	Keep enabled. It shows preset, statistics, status, active session and next expected step.
ShowGuidancePanel	bool Default: true	Shows additional guidance about what the indicator is currently waiting for.	Useful when learning or validating the signal logic live.
ShowReferenceLevels	bool Default: true	Shows the currently detected reference levels.	Keep enabled to see which liquidity the indicator is evaluating.
ShowSessionLines	bool Default: false	Shows subtle session open/close lines.	Disabled by default for a cleaner chart. Blue = open, red = close.
ShowHistoricalSignals	bool Default: true	Rebuilds past signals after loading or changing timeframe.	Keep enabled if you want to visually review historical signal quality.
MaxHistoricalSignals	int Default: 30	Maximum number of historical signals drawn on the chart.	Lower it if the chart becomes too busy.
StatisticsMaxScanBars	int Default: 20000	Maximum historical bars scanned for statistics and historical signals.	Higher values provide more context but increase loading time.
LabelFontSize	int Default: 8	Font size for chart labels.	8 is subtle. Use 9 or 10 on high-resolution displays if needed.

04 - Alerts & Export

Controls user alerts and machine-readable signal export for a separate execution utility.

Parameter	Default / options	What it does	Practical use
EnablePopupAlert	bool Default: true	Shows an MT5 popup when a new signal is confirmed.	Useful for desktop use.
EnablePushAlert	bool Default: false	Sends a push notification to the MT5 mobile app.	MT5 push notifications must also be configured in the terminal settings.
EnableSoundAlert	bool Default: false	Plays a sound on signal confirmation.	Useful when monitoring several charts.
AlertSoundFile	string Default: alert.wav	Sound file used for alerts.	The file must exist in the MT5 Sounds folder.
EnableSignalExport	bool Default: true	Publishes confirmed signals as Terminal Global Variables.	Only needed when a separate execution utility should read the signal. The indicator itself still does not trade.
ExportPrefix	string Default: PW_EXEC	Name prefix for exported Terminal Global Variables.	Default is PW_EXEC. Change only if multiple tools need separate prefixes.
SignalExpiryMinutes	int Default: 120	Expiration time for exported signals in minutes.	After expiration, the exported signal is marked invalid for external tools.



6. Manual Trading Workflow

- Choose symbol and timeframe.
- Keep Smart Preset and Built-in Preset Bank enabled.
- Check the dashboard: preset, statistics, status and active market mode should make sense.
- Watch for a structure-relevant reference level.
- Do not enter immediately after a sweep.
- Wait for reclaim and the displayed trade plan.
- Check entry, SL, TP1/TP2/TP3, news, spread and market phase.
- Execute manually or skip the trade intentionally.

7. Troubleshooting

No signals

Check that enough history is loaded, the session is active and a true structure sweep plus reclaim occurred. If selection is too strict, slightly reduce MinStructureLevelScore, MinStructureSwingBars or MinStructureLegATR.

Calibration finds no profile

This can happen when quality requirements are too strict for the current market. In that case, keeping an existing built-in preset is often the better baseline.

Too many small signals

Increase MinStructureLevelScore, MinStructureSwingBars, MinStructureSwingStrengthATR, MinStructureLegATR or MinBarsBetweenLevelAndSweep.

Chart is too busy

Reduce MaxHistoricalSignals or disable ShowHistoricalSignals.

No alerts

Check Popup/Push/Sound inputs. Push notifications must also be configured in MT5.

8. Risk Notice

The indicator is a decision-support tool for manual trading and does not guarantee profits. It does not replace market analysis, risk management or checking news, spread and broker conditions.