Trend Cloud PRO EA 1.0 – Settings Guide

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This guide explains every input of Trend Cloud PRO EA 1.0, with its default value and what it does. The EA opens a basket on a confirmed Trend Cloud PRO arrow, adds trades with the move (forward) and against it (recovery), and closes the whole basket together. There is no take profit on single trades.

In the tables below, the first column shows the text from the EA settings screen (Inputs tab), followed by the input name from the source code in brackets. The input name is what you see in saved .set files.

How the EA works

1. **Signal.** On each new bar the EA reads the last closed bar. An arrow is a Stochastic RSI K/D colour change and/or a price/SMA cross that has held for the set number of bars.
2. **First trade.** A confirmed arrow opens trade "Forward 1" (only above the SMA for buys and below it for sells, if OnlyWithSma is on).
3. **Forward grid.** While price moves in profit, the EA adds trades one step further in the trend direction.
4. **Recovery.** While price moves against the basket, the EA adds larger trades one step further against it.
5. **Hedge.** When recovery is full, or an opposite arrow appears, the EA can open opposite trades. Hedge trades are not counted in the basket.
6. **Exit.** All trades close together at the money target, the points target, the trail, a weakening trend, a divergence exit, a loss limit or the Friday close.

Requirements and conventions

- **Hedging account required.** On a netting account the EA opens only one trade and no grid or recovery.
- **Points** means broker points (`_Point`). On a 5-digit forex pair, 10 points = 1 pip.
- **Money inputs** are in account currency. With ScaleByBalance on, all lots and money inputs are multiplied by balance / ScaleReferenceBalance.
- **Signals** use closed bars only. Grid steps, exits and safety checks run on every tick.
- **License lock** (account numbers and expiry date) is hard coded at the top of the source file and does not appear in the settings.

Lot

These inputs set the size of the first trade and cap every trade. Lots are always rounded to the broker's volume step.

Setting on screen (input name)	Default	What it does
Base lot (first trade) (`BaseLot`)	0.01	Lot of the first trade. Forward and recovery lots are built from it.

Setting on screen (input name)	Default	What it does
Max lot of one trade (0 = broker max) (`MaxLot`)	1.00	Largest lot of any single trade. 0 = use the broker maximum. A bigger hedge is split into several trades.
Scale lots and money inputs with the account balance (`ScaleByBalance`)	false	Multiplies BaseLot, ForwardLotAdd and the money inputs by balance / ScaleReferenceBalance (minimum factor 0.1).
Balance the lot and money inputs were set for (`ScaleReferenceBalance`)	1000.0	The balance your lot and money inputs were designed for. Used only when ScaleByBalance is on.

Example: with ScaleByBalance on, ScaleReferenceBalance 1000 and a 5000 balance, BaseLot 0.01 becomes 0.05 and BasketTargetMoney 25 becomes 125.

Basket exit

The basket closes as one unit. Whichever condition is met first closes everything. Money inputs scale with ScaleByBalance.

Setting on screen (input name)	Default	What it does
After a winning basket, open again while the trend is still on (`ContinueWithTrend`)	true	After a winning close (target, points target or trail), opens a new basket at once if the trend is still on.
Close all at this profit (money, 0 = off) (`BasketTargetMoney`)	25.0	Closes all at this total profit. 0 = off. A hedged basket uses HedgeTargetMoney instead.
Close when price clears the average by points (0 = off) (`BasketTargetPoints`)	0	Closes when price is this many points beyond the basket average price. 0 = off. Not used while hedged.
Close a profitable basket when the trend weakens (`TakeProfitOnWeakening`)	true	Closes a profitable, unhedged basket when a gold x (trend weakening) appears.
Trail the basket profit (`UseBasketTrail`)	true	Trails the basket profit.
Arm the trail at this profit (`TrailStartMoney`)	15.0	The trail arms once the basket profit has reached this peak.
Close if profit falls this much from the peak (`TrailGivebackMoney`)	2.0	Closes if profit falls this much from the peak. Must be above 0 when the trail is on.
Emergency close at this loss (money, 0 = off) (`MaxBasketLossMoney`)	0.0	Emergency close at this floating loss. 0 = off.

Setting on screen (input name)	Default	What it does
Emergency close at this loss (% of balance, 0 = off) (`MaxBasketLossPercent`)	0.0	Emergency close at this loss as % of balance. 0 = off. If both loss limits are set, the smaller one applies.
Pause after this account equity DD % (0 = off) (`MaxEquityDrawdownPercent`)	0.0	Closes the basket and pauses trading when equity falls this % from its peak. 0 = off. Deposits and withdrawals do not count as drawdown.
Auto-resume this many hours after an equity pause (0 = manual) (`PauseResumeHours`)	0	Resumes automatically this many hours after an equity pause. 0 = manual resume.
Clear pause on start (turn off again after use) (`ClearPauseOnStart`)	false	Clears a saved pause and re-bases the equity peak when the EA starts. Turn it off again after use.
Bars to wait before re-entering after a winning basket (`ResumeCooldownBars`)	1	Bars to wait before re-entering after a winning basket.
Flatten on Friday and stop new trades (`CloseOnFriday`)	false	Closes everything on Friday and blocks new trades from the set hour.
Friday server hour to flatten (0-23) (`FridayCloseHour`)	21	Friday server hour when the Friday close starts.

Direction

Setting on screen (input name)	Default	What it does
Trade direction (`TradeDirection`)	Buy and sell	Buy and sell, Buy only, or Sell only. The dashboard buy/sell switches also apply.
When the opposite arrow appears (`OnOppositeSignal`)	Ignore the opposite arrow	Choices: **Ignore the opposite arrow**; **Close the basket**; **Close the basket and open the new direction**; **Hedge a losing basket**.
Opposite-arrow hedge: (points, 0 = at once) (`HedgeStartPoints`)	300	For the opposite-arrow hedge only: the hedge opens once price is this many points against the basket average. 0 = at once. The hedge is cancelled if price returns to the average first.

The opposite-arrow hedge ignores profitable baskets and baskets that are already hedged. It does not need the divergence or overbought/oversold gate.

Forward grid (with the move)

Forward trades are added while price moves in the basket's favour. The first trade counts as level 1.

Setting on screen (input name)	Default	What it does
Add trades when price moves in profit (`UseForwardGrid`)	true	Adds trades when price moves in profit.
Max trades with the move (first trade included) (`MaxForwardLevels`)	10	Maximum forward trades, first trade included.
Step to the next forward trade (points) (`ForwardDistancePoints`)	300	Step in points. Used when ForwardAutoDistance is off.
Forward lot size (`ForwardLotMode`)	Add a fixed lot each forward trade	Choices: **Same lot every forward trade**, **Multiply the lot each forward trade**, **Add a fixed lot each forward trade**.
Multiply lot each forward level (1 = same) (`ForwardMultiplier`)	1.3	Lot = BaseLot x multiplier ^ (level - 1). Used in Multiply mode.
Add this lot each forward level (`ForwardLotAdd`)	0.01	Lot = BaseLot + add x (level - 1). Used in Add mode.
Forward add only while the basket is in profit (`ForwardOnlyInProfit`)	true	Adds only while the basket's total profit is above 0.
Pause forward adds after the trend weakens (gold x) (`StopForwardOnWeakening`)	true	Pauses forward adds after a gold x. The pause lifts when the basket is flat.
At most one forward and one recovery add per signal bar (`OneAddPerBar`)	true	Limits adds to one forward and one recovery trade per signal bar.

A forward trade opens when price reaches the highest (buy) or lowest (sell) open price of the basket plus one step.

Auto distance (ATR)

Each grid step can be fixed in points or follow volatility. The ATR is read from the signal timeframe on the last closed bar. A step is never smaller than 2 points.

Setting on screen (input name)	Default	What it does
Forward step: true = follows ATR, false = fixed points (`ForwardAutoDistance`)	true	true = forward step is ATR x ForwardAtrMult. false = ForwardDistancePoints.

Setting on screen (input name)	Default	What it does
Recovery step: true = follows ATR, false = fixed points (`RecoveryAutoDistance`)	false	true = recovery step is ATR x RecoveryAtrMult. false = RecoveryDistancePoints.
ATR period (`AtrPeriod`)	14	ATR period.
Forward step = ATR x this (`ForwardAtrMult`)	0.80	Must be above 0 when forward auto is on.
Recovery step = ATR x this (`RecoveryAtrMult`)	1.30	Must be above 0 when recovery auto is on.

Trend change protection (DIV / OBOS)

These inputs use a separate, shorter RSI to spot a possible trend change. A bearish divergence is a higher price high with a lower RSI high. A bullish divergence is a lower price low with a higher RSI low. Only the divergence against the basket direction counts.

Setting on screen (input name)	Default	What it does
Close basket on counter-trend RSI divergence (`UseDivExit`)	false	Closes an unhedged basket when a counter-trend divergence appears. The EA does not re-open in that direction on the same bar.
Stop recovery adds when counter divergence appears (`StopRecoveryOnDiv`)	true	Blocks recovery adds while a counter-trend divergence is active.
Close profitable basket on extreme OB/OS (`UseObOsExit`)	false	Closes a profitable, unhedged basket when RSI is at an extreme (buy basket at overbought, sell basket at oversold).
RSI period used for DIV and OB/OS (`ProtectRsiPeriod`)	14	RSI period for divergence and overbought/oversold.
Bars left/right that define a swing (`DivPivot`)	5	Bars on each side that define a swing high or low.
Max bars between the two swings (`DivMaxBars`)	60	Maximum bars between the two swings.
RSI overbought level (`ProtectObLevel`)	70.0	RSI overbought level.
RSI oversold level (`ProtectOsLevel`)	30.0	RSI oversold level.
Keep a divergence alive this many bars (0 = one bar only) (`DivHoldBars`)	20	Keeps a divergence active for this many bars after it is found. 0 = one bar only.

A swing is confirmed DivPivot bars after it forms, so a divergence always appears with that delay.

Recovery and hedge

Recovery adds larger trades when price moves against the basket. A recovery trade opens when price is one step beyond the worst open price of the basket. When recovery is full, the EA can open a hedge: opposite trades that are not counted in the basket cap.

Recovery

Setting on screen (input name)	Default	What it does
Add trades when price moves against the basket (`UseRecovery`)	true	Adds trades when price moves against the basket.
Max recovery trades (`MaxRecoveryLevels`)	10	Maximum recovery trades.
Step to the next recovery trade (points) (`RecoveryDistancePoints`)	500	Step in points. Used when RecoveryAutoDistance is off.
Recovery lot = base x multiplier ^ level (`RecoveryMultiplier`)	1.5	Recovery lot = BaseLot x multiplier ^ level.
Recovery lot is at least this % of the open basket lots (0 = off) (`RecoveryExposurePct`)	25.0	The recovery lot is at least this % of the open basket lots, so a deep forward pyramid can still be recovered. 0 = off.

Hedge

Setting on screen (input name)	Default	What it does
When recovery is full, open a hedge instead of waiting (`HedgeWhenRecoveryFull`)	true	Opens a hedge when all recovery levels are used and price is still against the basket.
Hedge lot = basket lots x this (split across the hedge trades) (`HedgeMultiplier`)	1.2	Hedge lots = main basket lots x this, split across the hedge trades. The total is never below BaseLot x HedgeTradeCount.
Close all when a hedged basket reaches this (0 = basket target) (`HedgeTargetMoney`)	10.0	Closes everything when a hedged basket reaches this profit. 0 = use BasketTargetMoney.
Number of trades that open for the hedge (`HedgeTradeCount`)	1	Number of trades the hedge is split into. The count grows automatically when MaxLot would cap a trade.
Open the hedge only if counter-trend divergence is present (`HedgeOnlyIfDiv`)	true	Opens the hedge only with a counter-trend divergence active.

Setting on screen (input name)	Default	What it does
Open the hedge only if extreme overbought or oversold (`HedgeOnlyIfObOs`)	false	Opens the hedge only at an extreme RSI. If both gates are on, both must be true.
Hedge ignores the spread and trading-hours filters (`HedgeBypassFilters`)	true	The hedge ignores the spread and dashboard trading-hours filters.
Hedged basket: a new arrow in the basket direction closes the hedge (`HedgeUnlockOnTrend`)	true	A new arrow in the basket direction closes the hedge trades and leaves the main basket open.
Close everything after the hedge has been open this many bars (0 = off) (`HedgeTimeoutBars`)	0	Closes everything after the hedge has been open this many signal bars. 0 = off.

Once a hedge has started, the EA always completes it. The gates only decide whether it starts. While a basket is hedged, forward and recovery adds stop and the points target and weakening exits are not used.

Protection

Setting on screen (input name)	Default	What it does
Max spread in points (0 = off) (`MaxSpreadPoints`)	100	No new trade when the spread is above this. 0 = off.
Max open trades of this EA in main basket (hedges not counted, 0 = no cap) (`MaxTotalPositions`)	0	Maximum open trades in the main basket (forward + recovery). Hedges are not counted. 0 = no cap.
No new forward/recovery trade below this margin level % (0 = off) (`MinMarginLevel`)	500.0	No new forward or recovery trade below this margin level %. 0 = off. A hedge is exempt.
Max slippage in points (`SlippagePoints`)	50	Maximum slippage in points.
Magic number (`MagicNumber`)	20261029	Identifies this EA's trades. Use a different number on each chart or symbol.
Minimum seconds between two new trades (`MinSecondsBetweenOrders`)	2	Minimum seconds between two new trades.

The EA also checks free margin before each trade (it needs about 10% more than the trade requires) and refuses a trade when it is short.

Signal: Trend Cloud PRO indicator

The EA recalculates the Trend Cloud PRO logic internally, so the indicator does not need to be on the chart. Keep these values the same as your indicator settings if you want the arrows to match.

Setting on screen (input name)	Default	What it does
Signal timeframe (`SignalTimeframe`)	Current chart	Timeframe used for signals, ATR and bar counting.
SMA length (`SmaLength`)	96	SMA period.
SMA price (`SmaPrice`)	Close	Applied price of the SMA.
RSI length (`RsiLength`)	96	RSI period for the Stochastic RSI.
RSI price (`RsiPrice`)	Close	Applied price of the RSI.
Stochastic length (`StochLength`)	96	Stochastic period applied to the RSI.
Smooth K (`SmoothK`)	30	Smoothing of the K line.
Smooth D (`SmoothD`)	6	Smoothing of the D line.
What counts as a cross (`CrossSource`)	Both: either K/D or price/SMA can give the signal	Choices: **Colour change (StochRSI K crosses D)**, **Price crosses the SMA**, **Both: either K/D or price/SMA can give the signal**. If the two point in opposite directions on the same bar, there is no signal.
Bars the cross must hold (`ConfirmBars`)	5	The new side must hold for this many bars (plus the crossing bar) before the arrow is confirmed. Higher = fewer, later signals.
Min bars between weakening marks (`TEMinBars`)	10	Minimum bars between two weakening marks (gold x).
Buy only above SMA, sell only below (`OnlyWithSma`)	true	Buy only when price is above the SMA, sell only when below it.

A weakening mark appears when price is above the SMA and K crosses below D (up-trend weakening), or price is below the SMA and K crosses above D (down-trend weakening). The EA needs roughly StochLength + SmoothK + SmoothD + SmaLength + RsiLength + ConfirmBars + 80 bars of history before it starts.

News filter

The filter uses the built-in MQL5 economic calendar and reacts only to high-impact events of the symbol's base and profit currencies. It works on live and demo charts only. The strategy tester has no calendar, so the filter is off there.

Setting on screen (input name)	Default	What it does
Stop new trades around high-impact news (`UseNewsFilter`)	true	Stops new trades around high-impact news.
Stop this many minutes before the news (`NewsStopMinutes`)	30	Stops new trades this many minutes before the news.
Restart this many minutes after the news (`NewsRestartMinutes`)	30	Restarts this many minutes after the news.
News stop also blocks the hedge (`NewsBlockHedge`)	false	When true, the news stop also blocks the hedge.

During a news window the chart shows a red "News Stop" text. Upcoming events are drawn as red dashed vertical lines with the event name, forecast and previous value in the tooltip. Open trades stay open and are still managed. Manual orders from the dashboard are not blocked.

Profit labels, dashboard and about

Profit labels

Tags on the chart show the profit of each closed basket. Deals closed within LabelGroupSeconds are summed into one tag.

Setting on screen (input name)	Default	What it does
Show closed-basket profit tags (`ShowProfitLabels`)	true	Shows closed-basket profit tags.
Days of history to label (`LabelLookbackDays`)	30	Days of history to label.
Distance from close price (points) (`LabelOffsetPoints`)	300	Distance of the tag from the close price, in points.
Font size (`LabelFontSize`)	9	Font size.
Box colour (`LabelBoxColor`)	Navy	Box colour.
Text colour (`LabelTextColor`)	White	Text colour.
Connector line colour (`LabelLineColor`)	Red	Connector line colour.
Max tags (0 = unlimited) (`LabelMaxVisible`)	100	Maximum tags on the chart. 0 = unlimited.
Sum deals closed within this many seconds (`LabelGroupSeconds`)	2	Sums deals closed within this many seconds into one tag.

Dashboard

Setting on screen (input name)	Default	What it does
Dashboard X from the left (pixels) (`DashX`)	20	Dashboard distance from the left, in pixels.
Dashboard Y from the top (pixels) (`DashY`)	20	Dashboard distance from the top, in pixels.
Dashboard size (%) (`DashScalePct`)	80.0	Dashboard size in %.
Visual tester: text dashboard on/off (`TesterText`)	true	In the visual tester, shows the text dashboard. The full panel is for live charts only.
Extra journal lines when a grid add is skipped (`PrintDebug`)	false	Writes an extra journal line when a grid add is skipped.

The live dashboard has buy and sell switches, a trading-hours window (default 01:00 to 23:00) and manual buy/sell buttons with their own lot. Manual orders skip the spread and trading-hours filters but still follow the other safety checks, and they are refused if the basket runs in the other direction.

About

TelegramChannel: https://t.me/ForexEAandMore

MQL5Market: https://www.mql5.com/en/users/d579332f/seller

MQL5Channel: https://www.mql5.com/en/messages/035909005de4dc01

Setup tips and common pitfalls

- **Use a hedging account.** Without it the grid and recovery are switched off.
- **Set one MagicNumber per chart.** Two charts with the same magic number will mix their baskets.
- **Check the first-trade size against your balance.** Forward Add mode with 10 levels and recovery multiplier 1.5 over 10 levels can build large exposure. Set MaxLot, MinMarginLevel and a loss limit before going live.
- **Know what each exit needs.** The money target and trail work in any state, but the points target and weakening exit are ignored while a basket is hedged.
- **Equity pause stays on.** After an equity stop the EA stays paused, even after a restart, until you resume it (PauseResumeHours, or ClearPauseOnStart for one start).
- **Test the news filter live.** It is off in the strategy tester, so back-test results do not include news stops.
- **Test with the same signal settings** you plan to run live, because the ConfirmBars and SMA/RSI/Stochastic lengths strongly change how often baskets open.
- **Start on a demo account.** Run it for several weeks and read the Experts journal for skipped orders (spread, margin, news, order lock) before using real money.