EXPERT ADVISOR · METATRADER 4

Signal Bridge Pro MT4

Complete User Guide — version 4.10

Trade the signals of almost any MetaTrader 4 indicator — or one of eight classic strategies built into the EA. Signal Bridge Pro MT4 reads the arrows, lines, colours and levels an indicator publishes, decides when a real signal has appeared, and places the trade with your lot size, stop loss, targets and protection rules — explaining every step in plain words.

Where signals become trades.

Crystal AI Systems
Product page: mql5.com/en/market/product/175622
MT5 edition: mql5.com/en/market/product/193029
Support: MQL5 private messages and product comments

Formerly sold as *Trade With Buffers*. This guide documents every input of version 4.10. Settings marked with a mode only take effect in that mode.

Contents

If you only have ten minutes

- Read **Chapter 3**. Most support questions come from mixing up a buffer *number* with a buffer *value*.
- Leave **How to read the buffer** on **AUTO**, and **Read bar** on **1** (closed bar).
- After attaching the EA, open the **Experts** tab and read the **setup card** (Chapter 16). READY means go; CHECK SETUP says exactly what to change.
- Follow the matching playbook in **Chapter 17** and test on a demo account first.

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CHAPTER 01

Introduction

Signal Bridge Pro MT4 is a bridge: on one side an indicator you already trust, on the other side your trading account. It turns the first into trades on the second.

What it does

Most indicators show signals but cannot trade them. Signal Bridge Pro MT4 attaches to a chart, loads your indicator in the background, reads the numbers it publishes in its **buffers**, and recognises a new BUY or SELL signal the moment it appears. It then sizes the position, sets the stop and the targets, and sends the order — applying every filter and protection you switched on.

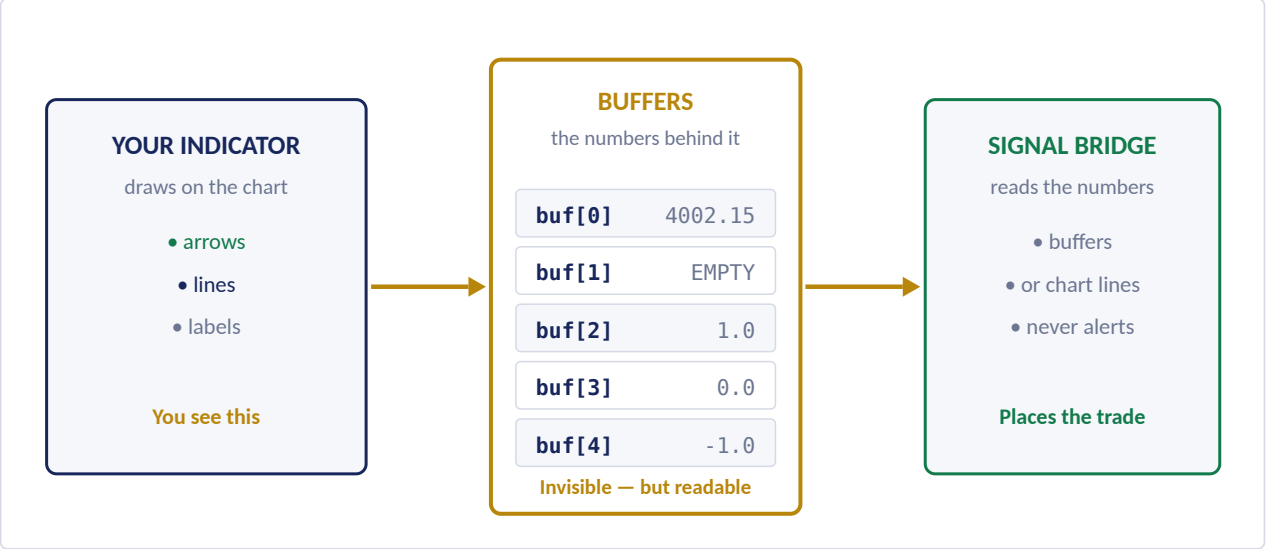


Figure 1.1 — The indicator draws for your eyes. Its buffers hold the same information as numbers, and that is what Signal Bridge Pro MT4 reads.

Three ways to get signals

Source	Use it when	Chapter
Custom indicator — BUFFERS	Your indicator draws arrows, lines, dots, colours or histograms	5, 6
Custom indicator — CHART LINES	Your indicator draws Entry / SL / TP lines but has no usable buffers	7
Built-in strategy	You want a classic strategy without installing any indicator	8

What it is not

- **It is not a strategy by itself.** With a custom indicator, the quality of the trades is the quality of that indicator.
- **It does not read text, alerts or pop-ups.** It reads buffers, or the price of the lines an indicator draws.
- **It does not change your indicator.** The indicator runs exactly as it would on its own chart.

What is new in version 4.10

Version 4.10 is a complete rebuild. The MT4 product formerly called **Trade With Buffers** now carries the engine of Signal Bridge Pro for MT5, adapted to MetaTrader 4.

Change	Why it matters to you
New name	Trade With Buffers is now Signal Bridge Pro MT4 — one product family on MT4 and MT5.
Smart buffer engine	AUTO plus ten read modes (was four). Every mode detects the moment a signal *starts*, so one signal is one trade — an arrow left on every bar no longer opens trade after trade.
Setup card and buffer map	On start the log says READY or CHECK SETUP, how many signals were found in the last 500 bars, and — when something is wrong — what every buffer holds.
Auto-fix	If the buffer numbers you entered are always empty but one buffer is clearly a +1 / -1 or 1 / 2 signal, the EA uses it and tells you.
Indicator inputs	Pass the indicator's own settings (numbers and true / false) from the EA.
Market indicators found automatically	Indicators bought on the Market live in `Indicators\Market`; the EA looks there too.
Chart Lines mode	Trade indicators that draw their setup as named lines.
Second indicator	Confirm or filter with another indicator, on the same or a higher timeframe.
TP1 / TP2 / TP3 and split	Read up to three targets and a stop from the indicator, bank part at each target.
News filter, risk guard, spread and Friday guards	Professional protection, all switched off by default.
Collapsible canvas dashboard	Click the header to fold the panel to one bar. Works in all four corners.
CSV journal and clear logs	Every entry, exit, skip and broker refusal explained and recorded.
Lower CPU load	The indicator is read once per bar on closed-bar mode; the panel redraws only when something changed.

Upgrading from Trade With Buffers 3.x

Your licence carries over — this is a free update of the same product. A few settings changed meaning; check them once after updating.

Setting	Version 3.x	Version 4.10
SL / TP / trailing distances	pips	**points** (on a 5-digit broker 10 points = 1 pip)
Default Stop Loss / Take Profit	200 / 400 pips	500 / 1000 points
Detection modes	Non-empty, Equal, Greater, Less	AUTO + 10 modes; **Equal** is now *Value equals level*
Minimum bars between signals	could block all trading	removed — one signal is one trade by design
Reverse / close on opposite	two switches, same effect	one setting: Reverse, Close only, or Keep (hedge)
Trailing stop default	ON	OFF (switch on in section 9)
Popup alert default	ON	OFF (section 18)
Order comment	CrystalUBC	SBP
Magic number	39000	39000 — trades opened by 3.x are still managed
Dashboard	text labels, broken on right corners	canvas panel, any corner, fold on click

IMPORTANT

Re-enter your SL / TP distances after the update. A 3.x setting of 200 (pips) means 2000 points in 4.10 on a 5-digit symbol. Leaving 200 would give a stop ten times tighter.

The decision chain at a glance

Every signal passes the same six steps. If any step stops it, the reason is written to the Experts log on one line, so a missing trade is never a mystery.

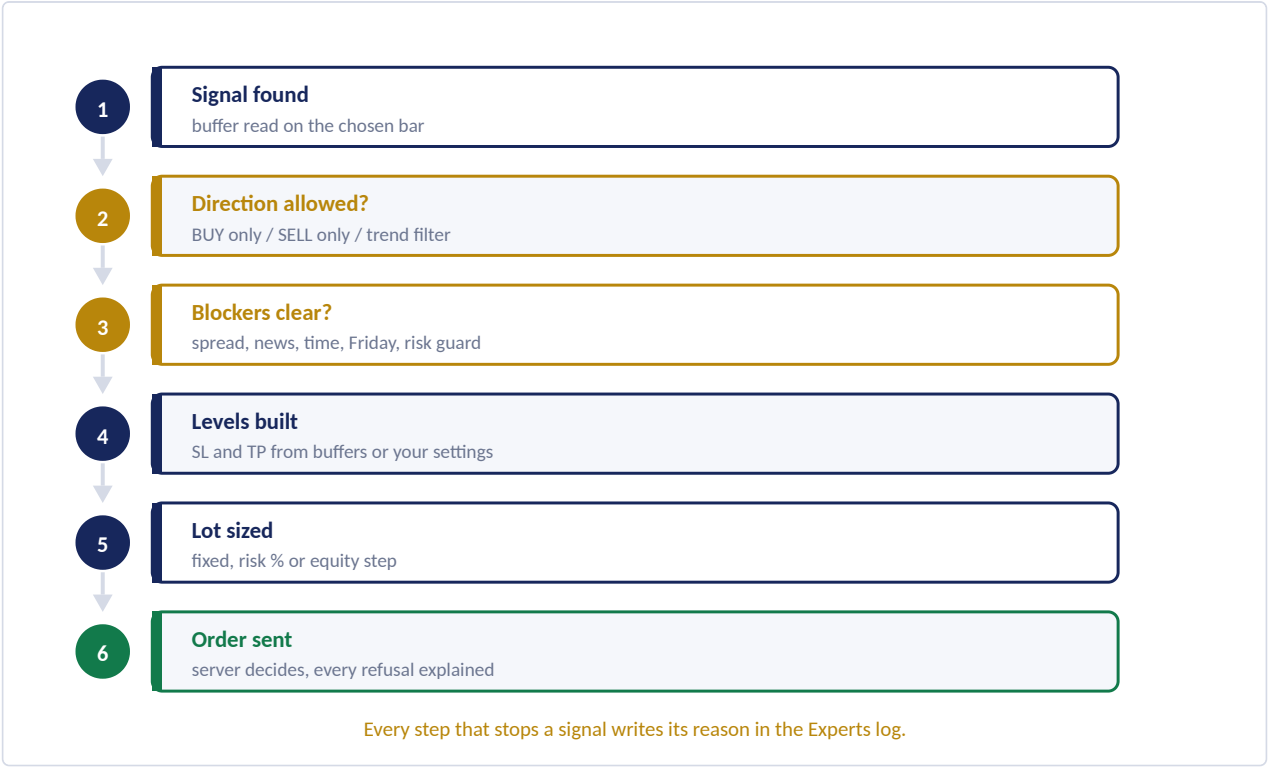


Figure 1.2 — What happens between a signal appearing and an order being sent.

CHAPTER 02

Installation and first run

Ten minutes from purchase to a working demo setup.

Install

1. In MetaTrader 4 open **Terminal (Ctrl+T) → Market → Purchased** and click **Install** next to Signal Bridge Pro MT4.
2. Install your indicator the same way, or copy its `.ex4` file into `MQL4\Indicators` (**File → Open Data Folder**).
3. Right-click **Navigator → Refresh**. The EA is listed under **Expert Advisors** (Market products under **Market**).

Allow automated trading

Where	What to switch on	If it is off
Toolbar	**AutoTrading** button (green)	Panel shows AUTOTRADING BUTTON IS OFF
EA properties → Common	**Allow live trading**	Panel shows TICK 'ALLOW LIVE TRADING'
Tools → Options → Expert Advisors	**Allow WebRequest** + the Forex Factory URL (only for the news filter)	News filter shows 'no data'; log explains how to add it
Your broker	Expert trading allowed on the account	Panel shows SERVER BLOCKS EA TRADING

The five-minute setup

1. Open a chart of the symbol and timeframe you want to trade. Drag the EA onto it.
2. **Inputs tab, section 1:** set **Where do the signals come from** = *Custom indicator - BUFFERS*.
3. **Section 2:** type the indicator file name exactly as shown in the Navigator (without `.ex4`). Enter the BUY and SELL buffer numbers (Chapter 3 shows how to find them). Leave the read mode on **AUTO**.
4. **Section 7:** choose a lot. **Section 8:** choose the SL / TP plan.
5. Click OK. Open the **Experts** tab and read the setup card (Chapter 16).

> **KEY POINT**
> If you only want to try the EA, keep the default source — **Built-in strategy**, Moving Average cross — and run it in the Strategy Tester. It needs no indicator.

What you should see

Within a second of attaching, the dashboard appears and the Experts tab prints the setup card:

```
------------------------------------------------------------
  SIGNAL BRIDGE PRO MT4 4.10  -  EURUSD H1  ->  trades EURUSD
------------------------------------------------------------
  Indicator  : "Market\Crystal Heikin Ashi Signals MT4"   inputs: defaults
  Buffers    : BUY 0 / SELL 1
  Read as    : Arrows - a new arrow = a signal  (auto),  empty = EMPTY
  History    : 37 BUY / 36 SELL signals in the last 500 bars
  SL / TP    : indicator, else fixed - SL buf 2, TP buf 3 / 4 / 5, close at TP2
  Lot        : 1.00% of equity per trade (sized from the real SL)
  Direction  : both ways,  opposite signal: reverse,  max 1 BUY / 1 SELL
  Timing     : read bar 1 (closed), delay 0, max age 1
  Protect    : off
  Filters    : none
------------------------------------------------------------
  STATUS     : READY - waiting for the next signal
```

The **History** line is the most useful line in this guide: it counts the signals the EA would have read with your settings in the last 500 bars. If it says 0 / 0, the settings are wrong — the card then prints the buffer map so you can read the right numbers off directly.

Where the EA keeps its files

File / item	Where	Purpose
Trade journal	`MQL4\Files\SignalBridgeProMT4_<magic>.csv`	Entries, exits, skips, refusals (Chapter 15)
Tester journal	`tester\files\SignalBridgeProMT4_<magic>_tester.csv`	The same, for tests
Global variables (F3)	names starting with `SBP_`	Day start equity, panel fold state, TP ladder per trade
Chart objects	names starting with `SBP_`	The dashboard and news lines (removed on exit)

> **NOTE**
> Do not delete `SBP_` global variables while trades are open: they remember which targets of a split trade were already banked.

CHAPTER 03

Buffers — the one idea you need

An indicator keeps one number per bar for each line, arrow or colour it draws. Those lists of numbers are its buffers.

Buffer number versus buffer value

Every buffer has a **number** (0, 1, 2 …) — its position in the indicator. On each bar it holds a **value** — a price, a code like 1 or -1, or nothing. The EA settings ask for the **number**. Indicator notes often describe the **value**. Mixing the two is the most common setup mistake.

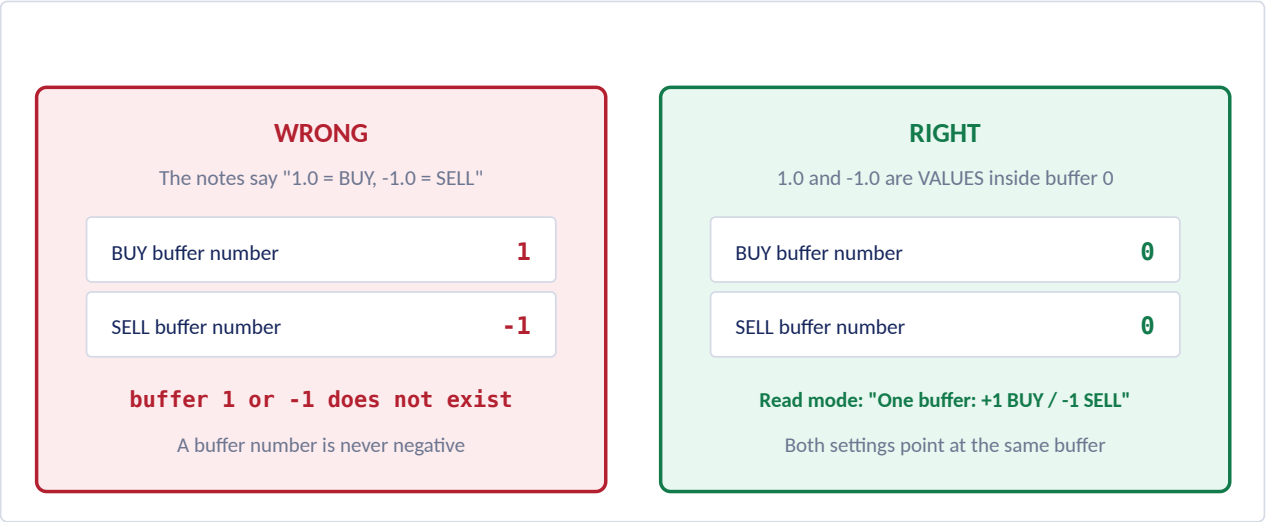


Figure 3.1 — "1 = BUY, -1 = SELL" describes values inside ONE buffer. Both buffer settings get that buffer's number.

What "no signal" looks like

The indicator writes	Called	The EA
2147483647 (shown as empty in the Data Window)	EMPTY_VALUE	treats it as no signal — always
0	zero	treats it as no signal in arrow modes (AUTO detects which one your indicator uses)
A price, 1, -1, 2 …	a value	reads it according to the read mode

Finding the buffer numbers yourself

1. Attach the indicator to a chart on its own. Press **Ctrl+D** to open the **Data Window**.
2. Move the mouse over a bar with a BUY arrow. The Data Window lists the indicator's values from top to bottom: the first one is buffer 0, the next buffer 1, and so on.
3. Note which row has a value on the BUY bar and is empty elsewhere — that is the BUY buffer. Repeat for SELL.
4. Rows that hold a price on the signal bar only (below the arrow, at a stop, at a target) are often the SL and TP buffers.

> **CAUTION**
> The Data Window shows only buffers that have a label. Hidden calculation buffers still count in the numbering. If the numbers do not work, let the EA tell you: set **Always print the buffer map** = Yes and read the map in the Experts tab.

The buffer map

The EA reads buffers 0 to 19 over the last 250 bars and describes each one. It prints the map by itself whenever the setup card says CHECK SETUP.

```
Buffer map of "SuperArrows" (last 250 bars):
  buffer  0 : arrows (sparse)                        21/250 bars  1.07312 .. 1.09870
  buffer  1 : arrows (sparse)                        20/250 bars  1.07402 .. 1.09955
  buffer  2 : line                                  250/250 bars  1.07280 .. 1.09912
  buffer  3 : +1 / -1 values (one buffer, both sides)  41/250 bars  -1.00000 .. 1.00000
  buffer  4 : always empty
  buffer  5 : always 0
```

Map says	Means	Use it as
arrows (sparse)	a value on a few bars only	BUY or SELL arrow buffer
+1 / -1 values	one buffer carries both sides	BUY = SELL = that number
1 / 2 codes	one buffer, 1 = BUY, 2 = SELL	BUY = SELL = that number
0 / 1 colour index	the colour of a line	BUY = SELL = that number (Colour mode)
histogram around 0	values above and below zero	BUY = SELL = that number (zero cross)
line	a value on every bar	two lines that cross, a slope, or an SL / TP level
always empty / always 0	nothing to read	not a signal buffer

CHAPTER 04

Three signal sources

Section 1 decides where signals come from. Everything else — lots, stops, filters — works the same for all three.

	Custom indicator — BUFFERS	Custom indicator — CHART LINES	Built-in strategy
Needs an indicator	Yes (.ex4)	Yes, or lines already on the chart	No
Signal from	Buffer values	New Entry line + side of SL / TP	Indicator cross / zone exit
SL / TP from indicator	Yes — SL, TP1, TP2, TP3 buffers	Yes — SL, TP1, TP2, TP3 lines	No — points or ATR
History count on start	Yes	No (lines have no history)	Yes
Works in the Strategy Tester	Yes	Yes, best in visual mode	Yes
Settings sections	1, 2	1, 2, 2b	1, 3

Choosing

- Start with **BUFFERS** for any indicator that draws arrows, dots, lines, histograms or coloured lines.
- Use **CHART LINES** only when the buffer map shows nothing useful but the indicator draws horizontal Entry / SL / TP lines.
- Use a **Built-in strategy** to trade without an indicator, to compare against your indicator, or as the main signal with a custom indicator as #2 filter.

> **KEY POINT**
> The second indicator (section 4) works with all three sources. A built-in MA cross filtered by your favourite trend indicator on H4 is a complete system in two settings.

CHAPTER 05

The read modes

Indicators show signals in different shapes. The read mode tells the EA which shape to look for.

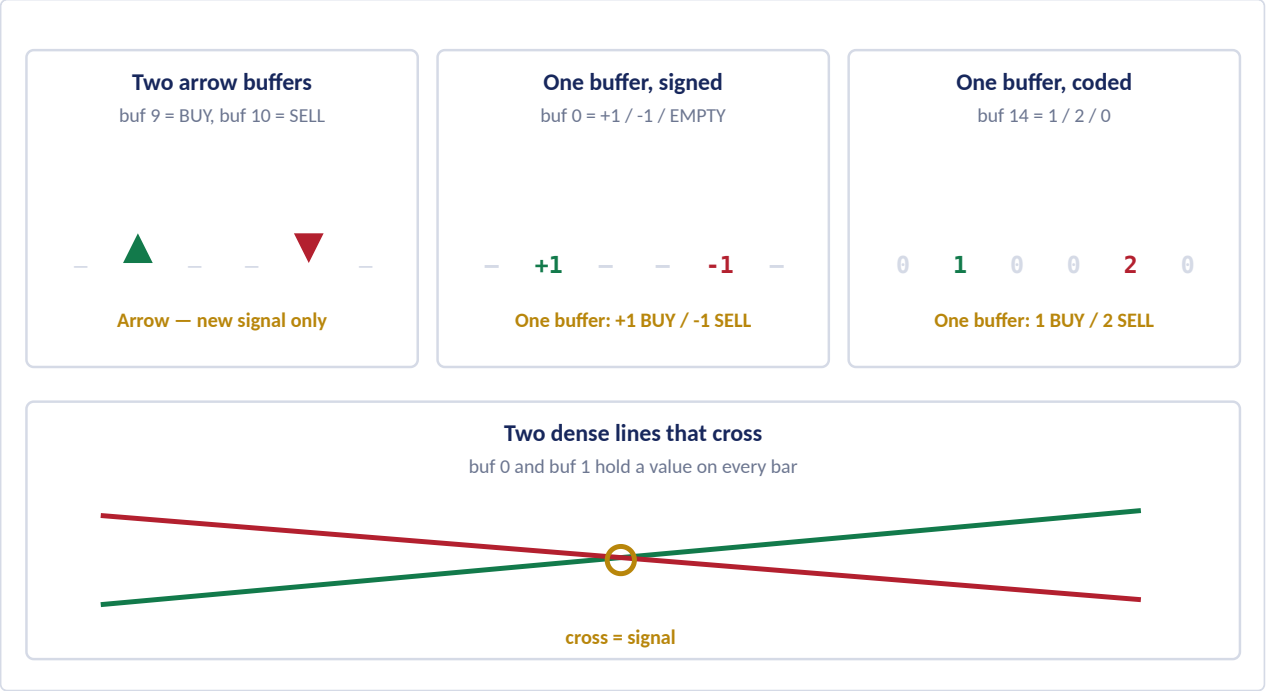


Figure 5.1 — The common buffer shapes and the moment each one becomes a signal.

Leave it on AUTO. On start the EA studies the last 250 bars of the chosen buffers and picks the mode. The setup card shows what it picked and why in plain words (*Read as:* …). Change it only if the card shows a mode that does not match what you see on the chart.

All modes

Mode	A BUY is	A SELL is	Buffers
Arrows - new arrow only	a value appears in the BUY buffer	a value appears in the SELL buffer	two
Arrows - every bar with a value	any bar with a BUY value	any bar with a SELL value	two
Two lines cross	BUY line crosses above SELL line	BUY line crosses below SELL line	two
Histogram crosses zero	value crosses above 0	value crosses below 0	one
Line crosses BUY / SELL level	crosses up through the BUY level	crosses down through the SELL level	one or two
Colour index 0 = up, 1 = down	colour turns to 0	colour turns to 1	one
One line turns up / down	the line turns up	the line turns down	one
One buffer: +1 BUY / -1 SELL	value becomes positive	value becomes negative	one
One buffer: 1 BUY / 2 SELL	value becomes 1	value becomes 2	one
Value equals BUY / SELL level	value becomes the BUY level	value becomes the SELL level	one or two

> **NOTE**
> Every mode fires on the bar where the signal **starts**. A buffer that keeps +1 for twenty bars gives one BUY, not twenty. This is the main fix over version 3.x.

One buffer: enter the number twice

For every "one buffer" mode put the same number in **BUY signal buffer number** and **SELL signal buffer number**.

Which mode do I need?

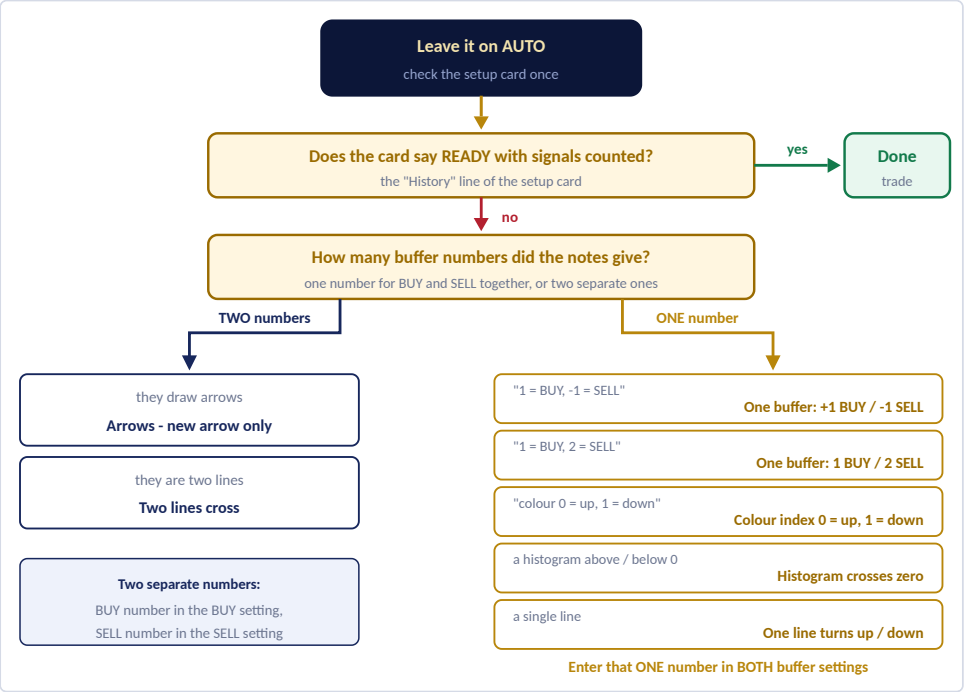


Figure 5.2 — Two questions are enough to land on the right mode.

Two settings that only some modes use

Setting	Used by	Example
BUY level / SELL level	Line crosses level; Value equals level	RSI-style indicator: BUY level 30, SELL level 70. Code indicator writing 5 for BUY and 7 for SELL: 5 and 7.
"No signal" value	Arrow modes	Auto detects whether gaps are 0 or EMPTY_VALUE. Override only if AUTO is wrong.

CHAPTER 06

Settings 1 & 2 — Source and indicator

Sections 1 and 2 of the Inputs tab.

Section 1 — Signal source

Setting	Default	What it does — and what we recommend
Where do the signals come from	Built-in strategy	BUFFERS, CHART LINES or Built-in strategy (Chapter 4).
Signal timeframe	current	Timeframe the signals are read on. Leave on current to follow the chart.
Signal symbol	blank	Read signals from another symbol. Blank = the chart symbol. Broker suffixes (EURUSDm, EURUSD.pro) are found automatically.
Trade on this symbol	blank	Trade a different symbol than the one read, e.g. read the index, trade the CFD. Blank = same.

Section 2 — Custom indicator (buffers)

Setting	Default	What it does — and what we recommend
Indicator file name	HA Signals	Name as shown in the Navigator, without `.ex4`. Market indicators can be typed with or without `Market\` — both folders are tried.
Indicator inputs	blank	The indicator's own inputs, in order, comma separated. Blank = the indicator's defaults. See below.
BUY signal buffer number	0	The buffer that carries the BUY signal (Chapter 3).
SELL signal buffer number	1	The SELL buffer. For one-buffer indicators: the same number as BUY.
How to read the buffer	AUTO	Chapter 5. Leave on AUTO.
"No signal" value	Auto detect	Auto, 0 and EMPTY_VALUE, or only EMPTY_VALUE.
BUY level / SELL level	0 / 0	Only for the Level and Value-equals modes.
Always print the buffer map	No	Yes prints the map at every start. It prints by itself on a problem anyway.

Passing the indicator's inputs

MT4 hands inputs to an indicator by **position**: the first value goes to the first input in the indicator's Inputs tab, the second to the second, and so on. Up to 12 values can be passed.

Indicator inputs tab	What to type
Period = 14, Multiplier = 2.5, Show arrows = true	`14, 2.5, true`
Period = 14, Multiplier = 2.5 (want only the period changed)	`21` — the rest keep their defaults
Mode (a list: Fast / Normal / Slow), Period	`1, 20` — list choices are numbered from 0
Colour input, Period	`255, 20` — or leave blank; colours do not affect signals

> **MT4 LIMIT**
> MT4 cannot pass **text** inputs from a setting. If the indicator's first input is text, leave this setting blank. If a text input comes later, type only the values before it; the setup card warns when it stops at a text value.

> **NOTE**
> Passing different inputs creates a separate copy of the indicator with those settings. The signals the EA reads then differ from a copy on the chart with other settings — compare like with like.

How the indicator is found

You type	The EA tries
`SuperArrows`	`Indicators\SuperArrows`, then `Indicators\Market\SuperArrows`
`Market\SuperArrows`	`Indicators\Market\SuperArrows`, then `Indicators\SuperArrows`
`MyFolder\SuperArrows`	that path, then `Indicators\SuperArrows`

The path that worked is remembered, so the journal does not fill with "cannot open file" lines on the next start. If the indicator is still downloading history, the EA waits and retries every 3 seconds; the panel shows LOADING INDICATOR.

CHAPTER 07

Settings 2b — Chart lines

Some commercial indicators publish no usable buffers. Instead they draw the latest setup as lines with fixed names.

Set the source to **Custom indicator - CHART LINES**, keep the indicator file name in section 2 (or leave it blank if the indicator is already on the chart), and enter the object names below.

Setting	Default	What it does — and what we recommend
Entry object name	blank	Required. The full name, or its first letters if the indicator adds a counter (Entry_125).
SL object name	blank	The stop line. Strongly recommended: it also tells BUY from SELL.
TP1 / TP2 / TP3 object name	blank	Target lines. Any you leave blank are simply not used.
Also trade the setup already on the chart at start	No	No = only setups that appear after the EA starts are traded.

How a setup becomes a trade

Step	What the EA does
Find	Looks for the entry object by name; with a prefix, the newest matching object wins.
Price	Horizontal line: its price. Trend line: its price on the current bar. Rectangle: its middle.
Direction	SL below entry or target above = BUY; the opposite = SELL. Without SL / TP lines, the words BUY / SELL in the name or text are used.
New?	A setup counts when the entry line appears, moves to a new price, or is anchored to a new bar.
Settle	An entry line moving with every tick is one setup: the EA waits until it holds still for a second.
Trade	SL and targets come from the lines when the SL / TP plan is one of the indicator plans (Chapter 11).

KEY POINT

Not sure of the names? Start the EA with any entry name. When it is not found, the setup card lists every object with a price on the chart — copy the names from there. You can also press **Ctrl+B** (Objects List) in MT4.

NOTE

If the indicator is already attached to the chart, the EA reads its lines and does not load a second copy (two copies would redraw the same names).

CHAPTER 08

Settings 3 — Built-in strategies

Eight classic strategies, kept from version 3 and now read on the signal symbol and timeframe.

Strategy	BUY when	SELL when
Moving Average crossover	Fast MA crosses above slow MA	Fast MA crosses below slow MA
RSI exit from OB / OS	RSI rises back above the oversold level	RSI falls back below the overbought level
Stochastic cross in zone	%K crosses above %D near oversold	%K crosses below %D near overbought
MACD signal cross	Main crosses above signal, above 0	Main crosses below signal, below 0
Bollinger re-entry	Close returns inside from below the lower band	Close returns inside from above the upper band
ADX +DI / -DI cross	+DI crosses above -DI, ADX above the threshold	-DI crosses above +DI, ADX above the threshold
CCI exit from OB / OS	CCI rises back above the oversold level	CCI falls back below the overbought level
Ichimoku TK cross + cloud	Tenkan crosses above Kijun, price above the cloud	Tenkan crosses below Kijun, price below the cloud

Parameters

Strategy	Inputs (default)
Moving Average	fast 10, slow 30, method EMA
RSI	period 14, overbought 70, oversold 30
Stochastic	%K 14, %D 3, slowing 3, overbought 80, oversold 20
MACD	fast 12, slow 26, signal 9
Bollinger	period 20, deviation 2.0
ADX	period 14, minimum strength 25
CCI	period 14, overbought 100, oversold -100
Ichimoku	Tenkan 9, Kijun 26, Senkou B 52

The trend side of a strategy

Each strategy also has a "which side are we on" reading, used when the trade direction is **Only with the trend** and the trend source is the main signal: fast MA above slow, RSI above 50, %K above %D, MACD above signal, close above the middle band, +DI above -DI, CCI above 0, price above the cloud.

> **NOTE**
> A strategy has no level buffers. With an indicator SL / TP plan, the EA uses the points or ATR fallback and says so on the setup card.

CHAPTER 09

Settings 4 & 5 — Second indicator and timing

Section 4 — Second indicator (optional)

Setting	Default	What it does — and what we recommend
Use a second indicator	No	Yes switches the second indicator on.
Indicator #2 file name / inputs	blank	As in section 2.
#2 BUY / SELL buffer number	0 / 1	Its buffers. AUTO reads it the same way as the main indicator.
#2 timeframe	current	Can be higher — an H4 trend filter for H1 signals.
How to combine	#2 trend must agree	The five modes below.
Sequence window	3	Sequence mode only: bars allowed between the #2 signal and the main signal.



Figure 9.1 — The five combine modes.

Mode	A trade opens when	Best for
Filter	main signal fires and #2 trend agrees	trading with a higher-timeframe trend
Veto	main signal fires and #2 does not point against it	blocking only clear counter-trend trades
AND	both agree on the same bar (signal or trend)	fewer, stricter trades
OR	either one fires	more trades from two sources
Sequence	#2 fires, then the main signal within N bars	setup + trigger systems

Section 5 — Signal timing

Setting	Default	What it does — and what we recommend
Read bar	1	1 = the last closed bar: the value can never change again (safe). 0 = the live bar: faster, but a repainting indicator can take the signal back.
Wait N bars after the signal	0	Enter only after N more bars — a simple confirmation.
Accept signals up to N bars old	1	A signal on bar 1 or 2 is still taken, e.g. after a reconnect or when a filter blocked it one bar earlier.
Cancel if price moved N points	0 (off)	Skip if price already ran N points away from the signal bar's close.
Reverse BUY <-> SELL	No	Trade the opposite of every signal (for counter-signal indicators).

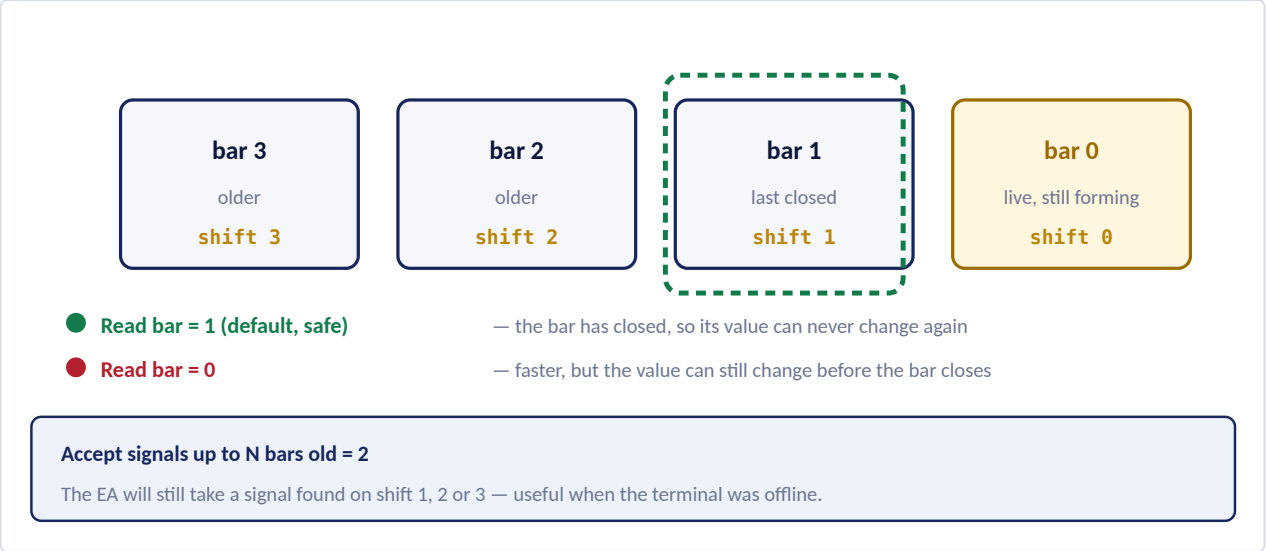


Figure 9.2 — Read bar, entry delay and signal age.

> **NOTE**
>
> On the closed bar the EA reads the indicator once per new bar — the lightest possible CPU load. On the live bar it reads at most every **Live-bar mode: read every N ms** (section 18, default 500 ms).

CHAPTER 10

Settings 6 — Trade direction

Setting	Default	What it does — and what we recommend
Which side may the EA trade	Both	Both, BUY only, SELL only, or Only with the trend.
Trend mode: read the trend from	Main indicator	A buffer of the main indicator (or the strategy's own side), or indicator #2.
Trend mode: buffer number	0	Main-indicator buffer that shows the trend.
Trend mode: how to read it	Slope	Slope (line rising = BUY side), Sign (above 0 = BUY side) or Colour (0 = BUY side).
Trend mode: invert	No	Swap up / down for indicators that use the opposite convention.
Opposite signal	Reverse	What happens to an open trade when the opposite signal arrives — below.
A blocked signal still closes a trade	No	Yes: a signal blocked by the direction filter still closes opposite trades.

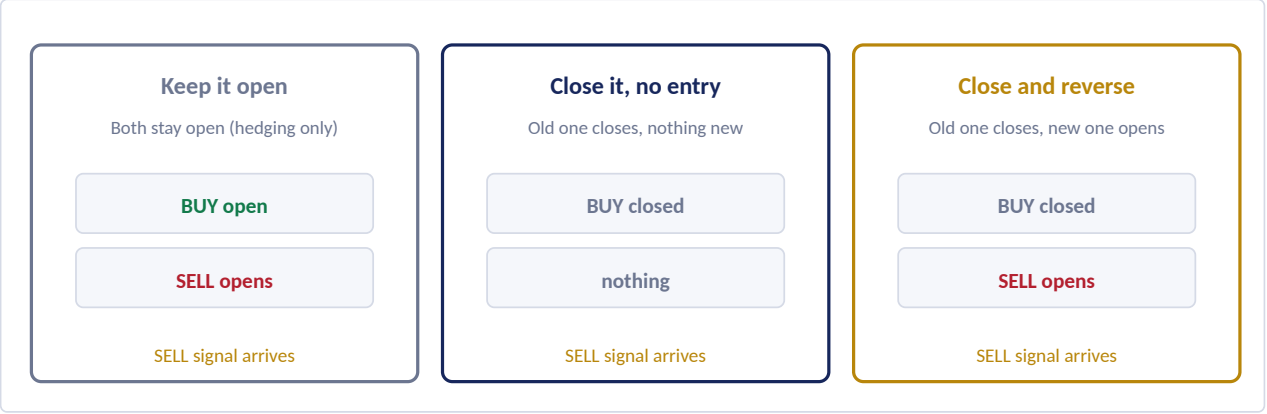


Figure 10.1 — The three answers to an opposite signal.

Opposite signal	Open trade	New trade	Account type
Close it and open the new side	closed	opened	any
Close it, no new trade	closed	none	any — a pure exit signal
Keep it open (hedge)	kept	opened	hedging accounts only

> **NOTE**
> If the opposite trade cannot be closed (market closed, context busy), the new trade is not opened either — the log says so — so a FIFO account never ends up hedged by accident.

CHAPTER 11

Settings 7 & 8 — Lot size, SL and TP

All distances are in points.

Section 7 — Lot size

Setting	Default	What it does — and what we recommend
Lot mode	Fixed lot	Fixed, Risk % of equity, or 0.01 lot per X equity.
Fixed lot	0.01	Used in Fixed mode, and as the fallback when no stop distance exists.
Risk % per trade	1.0	Risk mode: the lot is sized so that hitting the **real** stop — the indicator's or yours — loses this percent of equity.
Equity per 0.01 lot	1000	Equity mode: 0.01 lot for each step of this equity.

WARNING

Risk mode never rounds a lot *up* past your risk. If the risk gives less than the broker's minimum lot, the trade is skipped with a clear message instead of risking more than you asked.

Section 8 — SL / TP plan

Plan	SL and TP from	If the indicator has no level
No SL and no TP	nothing	—
Fixed points	Stop Loss / Take Profit (points)	—
ATR based	ATR x SL multiplier / ATR x TP multiplier	—
From the indicator only	SL and TP buffers or lines	trade skipped, reasons logged
From the indicator, otherwise fixed points	buffers or lines	fixed points fill the gap
From the indicator, otherwise ATR	buffers or lines	ATR fills the gap

KEY POINT

From the indicator, otherwise fixed points is the safest indicator plan: the indicator's levels are used when they are good, and a trade still opens — with a stop — when they are not.

Levels from the indicator

Setting	Default	What it does — and what we recommend
SL / TP1 / TP2 / TP3 price buffer	-1	Buffer that holds that price on the signal bar. -1 = not used.
SELL SL / TP1 / TP2 / TP3 buffer	-1	Only for indicators with separate SELL level buffers. -1 = same as above.
Which indicator TP to trade	TP2	Close all at TP1, TP2 or TP3 — or Split.
Split: close % at TP1 / TP2	40 / 30	Split mode: share of the position banked at TP1 and at TP2; the rest runs to TP3.
Minimum level distance	0	Levels closer than this are not used. 0 = the broker's stop level.

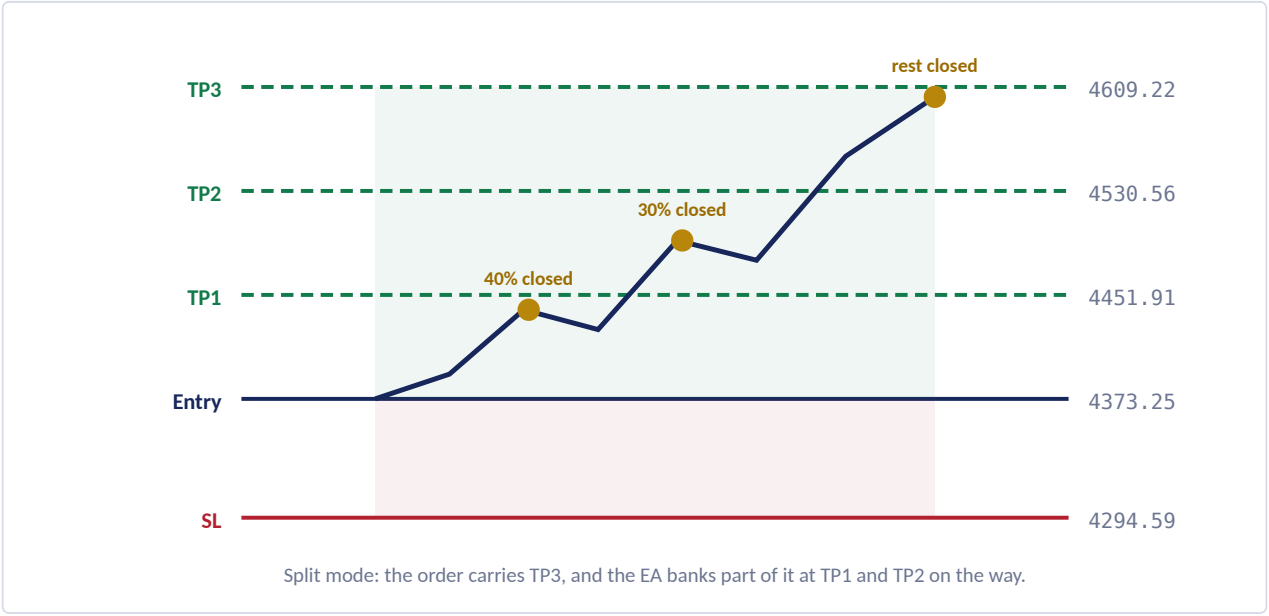


Figure 11.1 — Split mode: part at TP1, part at TP2, the rest at TP3.

How the levels are checked

- A level must be a real price on the signal bar and on the correct side of the entry price.
- A stop that is merely too close is pushed out to the minimum distance — never dropped. A trade without a stop would be worse.
- Each target keeps its own slot: TP2 always means the indicator's TP2. If TP2 is missing, TP1 is used and the log says so.
- In split mode the order carries the furthest target; TP1 and TP2 partial closes are made by the EA and remembered even after a restart.

CHAPTER 12

Settings 9–11 — Protect, risk guard, control

Section 9 — Protect profit

Setting	Default	What it does — and what we recommend
Enable break-even	No	Moves the stop to entry + lock once the trade is BE start points in profit.
BE start / BE lock	300 / 20	Profit (points) that triggers it, and points locked beyond entry.
Enable trailing stop	No	Follows the price at a fixed distance once Trail start is reached.
Trail start / distance / step	500 / 200 / 20	The stop moves only in steps, so the server is not flooded with changes.
Enable partial close	No	Closes a share of the position once, at a profit.
Partial at / close %	400 / 50	Profit (points) and share closed.

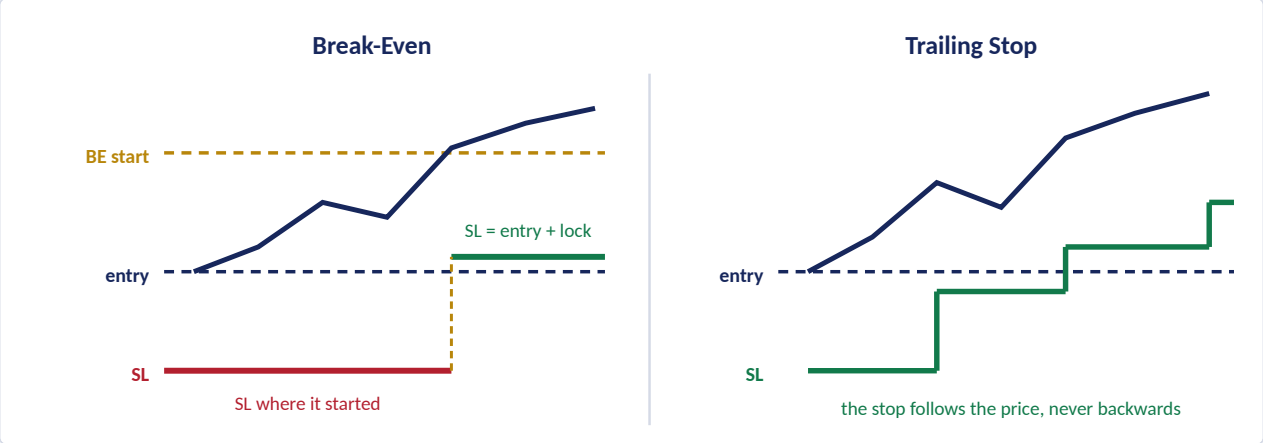


Figure 12.1 — Break-even locks a small profit; trailing follows the price.

Section 10 — Risk guard

When a limit is reached the EA stops opening trades (status turns red). Open trades stay managed. Daily limits reset at the start of the next server day; the others need the EA restarted.

Setting	Default	What it does — and what we recommend
Stop at account drawdown %	0	Equity below balance by this percent.
Daily loss limit (money)	0	Today's closed + floating result at or below minus this amount.
Daily profit target (money)	0	Stop for the day once today's result reaches it.
Daily give-back %	0	Stop if today's result falls this percent of start equity below its peak of the day.
Stop after N losses in a row	0	Consecutive losing trades of this EA.

Section 11 — Trade control

Setting	Default	What it does — and what we recommend
Magic number	39000	Identifies this EA's trades. Use a different number for each chart running the EA on the same symbol.
Order comment	SBP	Shown in the trade list.
Max BUY / Max SELL positions	1 / 1	Separate caps per side. 0 blocks that side.
Max slippage (points)	30	Allowed price change between request and fill.

CHAPTER 13

Settings 12–14 — Time, Friday, spread

Section 12 — Time filter

Setting	Default	What it does — and what we recommend
Use the time filter	No	Yes limits new entries to the hours and days below (server time).
Start hour / End hour	0 / 24	Entries from Start up to (not including) End. 22 / 6 works over midnight.
Monday ... Friday	Yes	Switch single days off.

Section 13 — Friday & weekend guard

Setting	Default	What it does — and what we recommend
Enable this section	No	Master switch.
Friday: no new trades from hour	18	Avoid opening trades that would carry over the weekend.
Friday: close everything / hour / minute	No / 20 / 55	Close all of this EA's trades before the weekend gap.
Skip the first N minutes after the week opens	0	Avoid the thin, gappy first minutes on Monday.

Section 14 — Spread guard

Setting	Default	What it does — and what we recommend
Enable this section	No	Master switch.
Hard max spread (points)	0	Never enter above this spread. 0 = off.
Block if spread > normal x N	2.5	The EA learns the normal spread (the median over the window) and blocks spikes.
Measuring window (seconds)	300	How long the normal spread is measured over.
Wait N seconds after a spike	60	Entries stay blocked this long after a spike ends.

> **NOTE**
> Times are the broker's server time — the time shown in Market Watch, not your PC clock.

CHAPTER 14

Settings 15 & 16 — News filter

The EA reads the Forex Factory weekly calendar and pauses around the releases you choose.

One-time setup

1. **Tools → Options → Expert Advisors**: tick **Allow WebRequest for listed URL**.
2. Add `https://nfs.faireconomy.media` to the list and click OK.
3. Set **Enable the news filter** = Yes. The panel's News row shows the next event within a few seconds.

Setting	Default	What it does — and what we recommend
Forex Factory XML URL	ff_calendar_thisweek.xml	Leave as it is.
News time offset (hours)	0	Forex Factory times are GMT. Enter your broker's GMT offset, e.g. 2 or 3.
Avoid HIGH / MEDIUM / LOW	Yes / No / No	Which impact levels pause trading.
Stop X min before / resume X min after	30/30, 15/15, 5/5	The pause window per impact level.
Only news of the traded currencies	Yes	EURUSD: EUR and USD news only.
Extra currencies to watch	blank	e.g. `USD` for gold or indices.
Block new entries in the news window	Yes	The main purpose of the filter.
Close open trades before news / X min	No / 5	Close this EA's trades shortly before the release.
Freeze trailing / BE during news	No	Avoid stops being tightened into the spike.
Draw news lines on the chart	Yes	Dotted vertical lines with the event name as tooltip.
After news, resume only on a normal spread	No	Needs the spread guard: waits for spreads to calm down.

Section 16 — Pre-news protection

Instead of closing everything, secure what is there a few minutes before the release.

Setting	Default	What it does — and what we recommend
Enable this section	No	Needs the news filter on.
Act N minutes before the release	5	When to act.
What to do with open trades	Break-even	Break-even, Tighten SL to N points, Close N percent, or Close everything.
Break-even: lock N points	10	Only trades already more than this in profit are moved.
Tighten: new SL distance	150	The stop is moved to this distance — only if that is tighter than the current stop.
Partial: close N percent	50	Share closed before the release.

TESTER LIMIT

MT4 does not allow web requests in the Strategy Tester. The news filter and pre-news protection are switched off in tests, and the log says so at start. Test news behaviour on a demo account.

What the News row shows

Shows	Means
off	The filter is switched off
off in tester	Strategy Tester — no calendar available
no data	The calendar could not be downloaded — usually the WebRequest URL is missing (the log explains)
USD HIGH in 2h	Next relevant event and time to it
PAUSED HIGH USD	Inside a pause window — no new entries
clear	No relevant event ahead this week

CHAPTER 15

Settings 17 & 18 — Dashboard, alerts, CSV

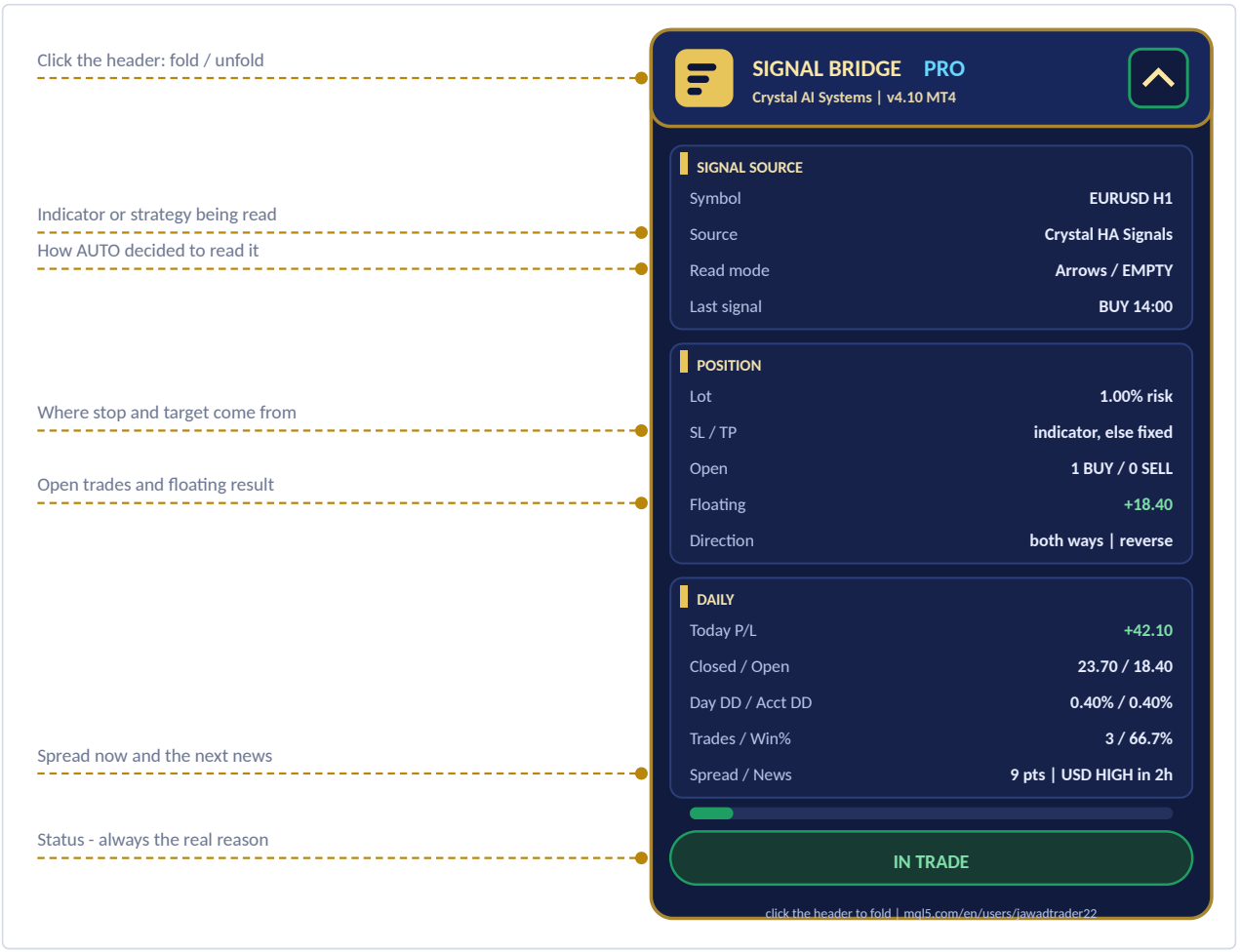


Figure 15.1 — The dashboard and what each row tells you.

Setting	Default	What it does — and what we recommend
Show the dashboard	Yes	The panel. Click its header to fold or unfold it.
Dashboard corner / X / Y	Top Left / 12 / 24	Any corner; offsets from that corner in pixels.
Size %	100	75–180. The panel also shrinks itself to fit a small chart.
Keep it above other indicators	Yes	Re-lifts the panel when another indicator draws over it.
Dark chart theme in the visual tester	Yes	Colours restored when the test ends.

CPU load

- Closed-bar mode reads the indicator once per new bar, not on every tick.
- The dashboard redraws only when something on it changed, at most four times a second.
- Statistics and daily results are rebuilt only when the account history changes.
- The news calendar is downloaded at most every 5 minutes and cached for 15.

Fold and unfold

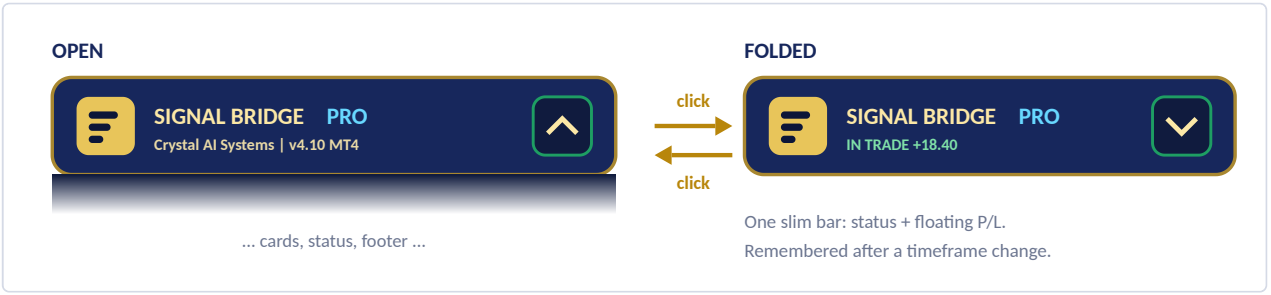


Figure 15.2 — Click the header to switch between the full panel and one slim bar (status + floating P/L). The choice is saved per chart.

Section 18 — Alerts, log and CPU

Setting	Default	What it does — and what we recommend
Popup / Push / E-mail on trade	No	Push needs your MetaQuotes ID in Tools → Options → Notifications; e-mail needs the Email tab set up. Not sent in the Strategy Tester.
Write a CSV trade journal	Yes	One line per entry, exit, partial, TP1 / TP2, skip, refusal, halt. Opens in Excel.
Log every signal	Yes	One line per signal: taken, or skipped with the reason.
Live-bar mode: read every N ms	500	CPU control for Read bar = 0.

The CSV journal

Type	Written when
ENTRY	an order is filled (with the source and where the levels came from)
EXIT	a trade closes — stop loss, take profit or closed, with the result
TP1 / TP2 / PARTIAL	part of a position is banked
REVERSE / EXIT-SIG	trades closed by an opposite or a blocked signal
SKIP / REJECT	a signal was not traded, or the broker refused it — with the reason
NEWS / FRIDAY / PROTECT / HALT	a protection rule acted

Status line

Status	Colour	Means
WAITING FOR SIGNAL	gold	everything is fine, no new signal yet
IN TRADE	green	at least one trade of this EA is open
LOADING INDICATOR / READING THE INDICATOR	amber	the indicator or its history is still loading
CHECK SETUP	amber	the setup card found a problem — read the Experts tab
OUTSIDE TIME FILTER / NEWS PAUSE / SPREAD TOO WIDE / WEEKEND GUARD	amber	a filter is holding new entries
AUTOTRADING BUTTON IS OFF, DAILY LOSS LIMIT ...	red	permissions or the risk guard block new trades

CHAPTER 16

The setup card and the Experts log

Open Terminal (Ctrl+T) → Experts. Everything the EA decides is written there in plain words.

The setup card

Printed once at every start, after the indicator has loaded. It ends with one of two verdicts:

Verdict	Means	Do
READY	The indicator loads, the buffers hold data, and signals were found in the last 500 bars	Nothing — the EA waits for the next signal
CHECK SETUP	Something prevents trading — the reason follows on the same line	Fix what it says; the buffer map below the card shows the right numbers

```
  Indicator  : "SuperArrows"   inputs: defaults
  Buffers    : BUY 5 / SELL 6
  Read as    : Arrows - a new arrow = a signal  (auto),  empty = EMPTY
  History    : 0 BUY / 0 SELL signals in the last 500 bars
  Buffer map of "SuperArrows" (last 250 bars):
    buffer  0 : arrows (sparse)                        21/250 bars  1.07312 .. 1.09870
    buffer  1 : arrows (sparse)                        20/250 bars  1.07402 .. 1.09955
    buffer  5 : always empty
    buffer  6 : always empty
  STATUS     : CHECK SETUP - buffers BUY 5 / SELL 6 never hold a value
```

Here the map shows the arrows are in buffers 0 and 1: set BUY = 0 and SELL = 1 and restart.

Auto-fix

```
  * AUTO-FIX  buffers 5 / 6 are always empty - using buffer 3 (+1 = BUY, -1 = SELL). Set both buffer numbers to 3 to make this
permanent.
```

Auto-fix only acts when the numbers entered never hold a value **and** exactly one buffer is clearly a both-sides signal (+1 / -1 or 1 / 2). Arrow pairs are never guessed — which one is BUY cannot be known.

The signal log

Each signal gets one line: side, signal bar, and what happened. The same outcome is never repeated tick after tick.

```
BUY  2026.11.03 14:00  ->  sending order
FILLED  #48213377 BUY 0.12 EURUSD @ 1.08321  SL 1.08021  TP 1.08921
SELL 2026.11.03 20:00  ->  SKIP  spread 45 pts too wide
BUY  2026.11.04 09:00  ->  SKIP  indicator #2 trend points the other way (filter H4)
SELL 2026.11.04 15:00  ->  opposite trade closed, sending order
  note  indicator TP2 was not usable, using TP1 (empty, wrong side or too close)
REFUSED  BUY 0.12 EURUSD @ 1.08410  SL 1.08405  TP 1.08990  ->  invalid stops - SL/TP too close to the price
  ->  raise the SL/TP distance or use 'From the indicator, otherwise fixed points'
```

Every SKIP reason

Log says	Cause	Fix
AUTOTRADING BUTTON IS OFF / TICK 'ALLOW LIVE TRADING'	terminal permissions	Chapter 2
outside your trading hours	time filter	section 12
spread N pts too wide	spread guard	section 14 — or wait
news - HIGH USD	news window	section 15
Friday / weekend guard	section 13	by design
halted - Daily loss limit	risk guard reached	next day, or section 10
SELL signals are switched off	direction = BUY only	section 6
the trend points the other way	trend filter	section 6
indicator #2 trend points the other way	#2 filter / veto	section 4
1 of max 1 already open	position cap	section 11
price already moved N pts	drift guard	section 5
market closed	session closed for the symbol	—

Messages about the order itself

Log says	Meaning and fix
SKIP BUY 0.50 EURUSD - not enough free margin	The lot cannot be funded. Lower the lot or the risk %. Checked before sending, so the server is never spammed.
SKIP BUY - the risk % gives 0.004 lot, below the broker minimum	Risk mode would need less than the minimum lot. Raise the risk % or use a fixed lot.
SKIP BUY @ ... - the indicator gave no usable SL / TP	Plan "From the indicator only": the next line shows each level's state (not set, empty on this bar, wrong side, too close). Use the plan with a fallback.
the opposite trade could not be closed	The reverse was stopped so the account never ends up hedged. Retried on the next signal.
Cannot trade: SERVER BLOCKS EA TRADING	The broker disabled expert trading for the account — ask the broker.
... the news download is blocked. Add this URL ...	Add the Forex Factory URL in Tools → Options → Expert Advisors.
waiting for the indicator - "X" was not found ...	Wrong file name or the indicator is not installed in this terminal.
... halted: Daily loss limit - no new trades	A risk-guard limit was reached. Open trades stay managed.

Broker refusal codes

Code	Meaning	Usual fix
130	invalid stops	SL / TP too close — raise distances or minimum level distance
131	invalid lot	check the broker's min / max / step (shown in the log)
133	trading disabled	symbol or account not tradable
134	not enough money	lower the lot / risk
135 / 136 / 138	price changed / off quotes / requote	retried automatically 3 times
146	trade context busy	retried automatically
148	too many orders	lower the caps or close orders
149 / 150	hedging / FIFO rule	opposite signal = Close it and open the new side, or Close only
4109	trading not allowed	tick Allow live trading, press AutoTrading

CHAPTER 17

Setup playbooks and presets

Four common situations, start to first trade.

Playbook A — Arrow indicator

Setting	Value	Why
Where do the signals come from	Custom indicator - BUFFERS	
Indicator file name	as in the Navigator	
BUY / SELL buffer	from the Data Window	Chapter 3
How to read the buffer	AUTO	becomes Arrows
SL / TP plan	Fixed points or ATR	arrows carry no levels
Opposite signal	Close it and open the new side	always in the market with the indicator

Playbook B — Indicator with SL and TP levels

Setting	Value	Why
BUY / SELL buffer	signal buffers	or one +1 / -1 buffer twice
SL / TP plan	From the indicator, otherwise fixed points	safe fallback
SL / TP1 / TP2 / TP3 buffer	from the Data Window	rows with a price on the signal bar
Which indicator TP to trade	Split 40 / 30	bank part early, let the rest run
Lot mode	Risk % 1.0	sized from the indicator's real stop

Playbook C — Built-in strategy with a trend filter

Setting	Value	Why
Where do the signals come from	Built-in strategy	
Built-in strategy	Moving Average crossover	10 / 30 EMA
Use a second indicator	Yes	your trend indicator
#2 timeframe	H4 (signals on H1)	higher-timeframe filter
How to combine	#2 trend must agree	Filter mode
SL / TP plan	ATR based, 2.0 / 4.0	adapts to volatility

Playbook D — Indicator that draws lines

Setting	Value	Why
Where do the signals come from	Custom indicator - CHART LINES	
Entry / SL / TP1–3 object name	from the setup card's object list	prefixes allowed
SL / TP plan	From the indicator, otherwise fixed points	levels from the lines
Also trade the setup already on the chart	No	only fresh setups

Three starting presets

Setting	Conservative	Balanced	Active
Read bar	1	1	1 (0 only for non-repainting indicators)
Lot mode / risk	Risk 0.5%	Risk 1%	Risk 2%
SL / TP plan	indicator, else ATR	indicator, else fixed	indicator, else fixed
Second indicator	Filter on a higher TF	Veto	off
Break-even / trailing	on / on	on / off	off / on
Daily loss limit (money)	about 2% of balance	about 4% of balance	about 6% of balance
News filter	HIGH + MEDIUM	HIGH	off
Spread guard	on, spike x2	on, spike x2.5	hard max only
Friday guard	no entries from 16, close 20:55	no entries from 18	off

> **NOTE**
> Presets are starting points, not recommendations for your account. Test any change on a demo account first.

CHAPTER 18

Testing in the Strategy Tester

Test every new indicator setup before trading it live.

Run a test

1. Open **View → Strategy Tester** (Ctrl+R). Expert Advisor: **Signal Bridge Pro MT4**.
2. Pick symbol, period and dates. Model: **Every tick** for accuracy, **Open prices only** for a quick look with Read bar = 1.
3. Click **Expert properties** and set the inputs as for live trading.
4. Tick **Visual mode** the first time to see the dashboard and the trades on the chart. Click **Start**.
5. Read the setup card in the **Journal** tab of the tester.

What is different in the tester

Feature	In the tester
News filter / pre-news protection	off — MT4 does not allow web requests in tests (said at start)
Popup, push, e-mail	not sent
Dashboard	only in visual mode; folding by click is a live-chart feature
Indicator	must be installed in the same terminal; a missing indicator stops the test with a clear message
Repainting indicators	the tester shows the final drawing; live results can differ — use Read bar = 1
CSV journal	written to `tester\files` as `…_tester.csv`

The test indicator SBP_TestSignals

A small indicator shipped with this guide for checking every read mode. It gives a signal every 6 bars (BUY, SELL, BUY …) on a fixed time grid, so the number of trades is known in advance. Every buffer carries the same signal in a different shape.

Test	Source / buffers	Setup card should say
Arrows	BUFFERS, BUY 0 / SELL 1	Arrows
One buffer +1 / -1	2 / 2	One buffer +/-
One buffer 1 / 2	3 / 3	One buffer 1/2
Colour	4 / 4	Colour
Two lines cross	9 / 10	Line cross
Auto-fix	15 / 16	AUTO-FIX using buffer 2
Levels + split	0 / 1, plan indicator-else-fixed, SL 5, TP 6 / 7 / 8, Split	ENTRY, then TP1 and TP2 lines in the CSV
Chart lines	CHART LINES, inputs `6,0,300,300,600,900,false,true`, names TST_Entry, TST_SL, TST_TP1–3	one trade per new setup (visual mode)

On H1 every test should show about one signal every six hours in the History line and in the trade list. If a number is far off, the setup card tells you why.

> **KEY POINT**
> Optimising? The EA reports **profit factor × recovery factor** as its custom criterion, and returns 0 for runs with fewer than 10 trades, so lucky one-trade runs never win the optimisation.

CHAPTER 19

Troubleshooting

Symptom, cause and fix.

Symptom	Likely cause	Fix
No trades at all, panel says WAITING	no new signal yet, or the History line was 0 / 0	read the setup card; check buffers
Panel shows a red status	AutoTrading off, live trading not allowed, risk guard	the status names it — Chapter 2 / 12
LOADING INDICATOR never ends	wrong file name, not installed, or a text input passed	check the name in the Navigator; leave inputs blank
Trades every bar	an arrow-every-bar mode chosen by hand	set the mode back to AUTO or Arrows - new arrow only
BUY trades where the chart shows SELL	BUY / SELL buffer numbers swapped, or colour convention reversed	swap the numbers; for colour, use Reverse signals
Trades open one bar late	Read bar = 1 is waiting for the bar to close	by design — use 0 only with non-repainting indicators
Fewer trades than arrows	filters, caps, a second indicator, or the arrows repaint	read the SKIP lines in the log
SL / TP not from the indicator	level buffer empty, wrong side or too close	the note line names which; check the buffer numbers
Invalid stops (130)	levels inside the broker's stop level	raise the distances / minimum level distance
News filter shows no data	WebRequest URL not added	Chapter 14
Panel hidden behind another indicator	the other indicator draws later	Keep it above other indicators = Yes
Panel too big for the chart	small chart window	Size % lower; it also shrinks itself
Two charts close each other's trades	same magic number on the same symbol	give each chart its own magic number
Different results live and in the tester	repainting indicator or different spread	Read bar = 1; test with realistic spread

CHAPTER 20

FAQ, glossary and support

Can it trade any indicator?

Any indicator that publishes its signals in buffers or draws named price lines. Indicators that only show text, pop-ups or pictures cannot be read by any EA.

Do I need the indicator on the chart?

No. The EA loads it in the background. Attaching it too only lets you see it.

Can I use an indicator I bought on the Market?

Yes. It is found in the Market folder automatically. It must be installed in the same terminal.

Which timeframe?

Any. Signals can be read on a different timeframe from the chart, and #2 on another again.

Can I run it on several charts?

Yes — give each chart its own magic number when two charts trade the same symbol.

Does it work on gold, indices and crypto?

Yes, on any symbol your broker offers. Distances are in points of that symbol.

Does it use martingale or grids?

No. One signal is one trade, sized by your lot rules.

Why no alerts in the Strategy Tester?

MT4 does not deliver notifications in tests. They work on live charts.

I have the MT5 version. Same settings?

The engine and section names are the same; distances are points on both.

Glossary

Term	Meaning
Buffer	A list of numbers an indicator keeps — one value per bar
Buffer number / value	Position of a buffer (0, 1, 2 …) / what it holds on a bar
EMPTY_VALUE	The number an indicator writes when there is nothing to show
Read bar (shift)	Which bar is read: 1 = last closed, 0 = forming
Repaint	An indicator changing its past signals
Point	The smallest price step; 10 points = 1 pip on 5-digit symbols
Magic number	The ID the EA writes on its trades

Version history

Version	Changes
4.10	Renamed Signal Bridge Pro MT4. Complete rebuild on the Signal Bridge Pro engine: AUTO + 10 read modes, setup card, buffer map, auto-fix, indicator inputs, Market path search, chart lines, second indicator, TP1/TP2/TP3 split, news filter, risk / spread / Friday guards, CSV journal, collapsible canvas dashboard, lower CPU load, distances in points.
3.10	Trade With Buffers: 8 built-in strategies, 4 detection modes, label dashboard.

Support

- Ask in the **product comments** or send an **MQL5 private message** to jawadtrader22.
- Include: the setup card from the Experts tab, your indicator's name, symbol and timeframe. With the card we can usually give the exact settings in one reply.
- Updates are free for buyers and install from Terminal → Market → Purchased.
- Using MetaTrader 5? The MT5 edition is Signal Bridge Pro: mql5.com/en/market/product/193029.

Risk notice

Trading foreign exchange and CFDs on margin carries a high level of risk and may not be suitable for all investors. Past performance, including Strategy Tester results, is not indicative of future results. Signal Bridge Pro MT4 automates the signals of the indicator or strategy you choose; it does not guarantee profits and is only as good as that signal source. Test on a demo account first and use proper risk management.