

Fractalan Expert Advisor

Version 1.4, December 2021.

Fractalan – a moderately aggressive EA who works on the martingale strategy. The first order in the series can be opened manually by both the EA and the trader. Subsequent orders are opened when the fractal level of the specified timeframe is broken.

Importantly! Before launching an EA on a real account, pre-optimize it in the MT4 strategy tester on the historical data of your broker. For preliminary optimization, you can select the "Open prices only..." mode to check and optimize more accurately, use the "Every tick..." mode.

Importantly! If your broker uses a floating spread, set the average, fixed spread value in the tester! The fact is that the spread on a demo account can be very different from the spread on a real account! In addition, some brokers increase the spread by 3 times before the close of trading on Friday. And if you optimize the EA on weekends, leaving the default spread as "Current", you will get the result as with a triple spread!

Period:	M15	Symbol properties
Spread:	25	Open chart
Optimization <input type="checkbox"/>		Modify expert

How to optimize the EA see here <https://www.mql5.com/en/articles/1385>

HOT BUTTONS

Hot buttons are designed for quick execution of one command. After pressing the button, its color changes, and the button is blocking, when pressed again, removed the blocking and leads to the original state of the button. Any press of the button EA fixes in its log, you can see the current position of the button on the tab "Experts". You can also unblock the button using the new initialization of the EA (for example, switching to another timeframe). In this case, you do not need to press anything, the blocking is removed automatically.



Close All – closes and deletes all orders on the current currency pair, as well as stops the work of the EA, pressing the button again removes this lock.

Close Loss – closes only orders with loss on the current currency pair.

Close Profit – closes only orders with profit on the current currency pair.

Delete PO – deletes all pending orders on the current currency pair.

Delete TP – deletes take profit from all orders on the current currency pair.

Block 1. GENERAL SETTINGS

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Variable	Value
ab 1. GENERAL SETTINGS	
123 Magic number (0 - automat)	0
Trading	true
Martingale	true
123 Positions: >	Long & Short
123 Fractal timeframe: >	5 Minutes
123 Type of the first order: >	Pending orders
Work on Friday	true
123 Pause before starting a new cycle: >	no
1/2 Initial lot in the series	0.01
1/2 Fixed martingale lot	0.0
123 Max number of open orders	8
1/2 Stop Loss	0.0
1/2 Take Profit	14.0
Update the take profit level	true
Virtual take profit	false
1/2 Martingale coefficient	1.6
123 Mini step between martingale orders	3
123 Indent for pending orders	5
123 Slippage	3

Load Save OK Отмена Reset

Magic Number (0-automat) = 0 - allows you to specify to the EA which orders (with which magic number) it should track. If the magic number = 0, the EA will automatically select the original magic number (5-digit), which will differ depending on the currency pair on which it is installed. Instead of zero, you can set your magic number. If you put "-1" instead of 0, the EA will take into account and monitor all orders that are currently available on the chart, including orders opened manually.

Importantly: if the magic number is "-1", then the EA will not open new orders, but all other functions of the adviser (martingale, trailing stop, breakeven, hot buttons, etc.) will continue their work as usual.

Trading = true, if you select false, then the EA will no longer open new orders, but all other functions of the EA will continue to work (trailing stop, breakeven, closing with a fixed profit, etc.).

Martingale = true, if false, the EA will not open averaging orders, however, if the "Manual trading" mode is enabled, the trader can open such orders himself and the EA will work with him as with his own.

Positions:

- **Long only** - open and trawl only buy orders;
- **Short only** - open and trail only sell orders;
- **Long & Short** - for orders of all directions.

Martingale	true
123 Positions: >	Long & Short
123 Fractal timeframe: >	Long only
123 Type of the first order: >	Short only
Work on Friday	true

Importantly! When choosing one direction (only Buy or only Sell), if the pending order did not work and the price moved away from the order, the EA will automatically move the pending order closer to the price by the distance "Indent for pending orders" from the closing price of the last bar the working timeframe.

Fractal timeframe: = «15 Minutes» - according to this timeframe, the EA will track the fractal levels of this period. **Importantly:** during trading, you can change the timeframe period, if the period is smaller, there will be more fractals and the EA will open more orders, if the period is longer, there will be fewer fractals and the EA will open new orders less often.

123 Positions: >	Long & Short
123 Fractal timeframe: >	15 Minutes
123 Type of the first order: >	current
Work on Friday	1 Minute
	5 Minutes
123 Pause before starting a new cycle	15 Minutes
1/2 Initial lot in the series	30 Minutes
1/2 Fixed martingale lot	1 Hour
	4 Hours
123 Max number of open orders	1 Day
	1 Week
1/2 Stop Loss	1 Month

Type of the first order:

- **Pending orders** – two pending Buy Stop and Sell Stop orders will be placed at once, when one of them is triggered, the second one will be automatically deleted;
- **Market order** – when the price breaks through the upper or lower fractal, the first order in the series will be opened, to confirm the breakdown, the EA will wait for the bar to close;
- **Manual trading** – the trader himself can open an order in any direction.

123 Fractal timeframe: >	15 Minutes
123 Type of the first order: >	Pending orders
Work on Friday	Pending orders
123 Pause before starting a new cycle	Market order
1/2 Initial lot in the series	Manual trading
	0.01

Work on Friday = true – work on Friday, if false – then, on Friday, the EA will no longer open new orders, but all other functions of the EA will continue to work (trailing stop, breakeven, closing with fixed profit, etc.).

Pause before starting a new cycle: – a pause before opening a new order after closing the previous series of orders is necessary in some cases, when it is necessary, for example: to wait out the news, a press conference or a period of uncertainty, or just take a break!

Work on Friday	false
123 Pause before starting a new cycle	1 minute
1/2 Initial lot in the series	no
1/2 Fixed martingale lot	1 minute
	5 minutes
123 Max number of open orders	15 minutes
	30 minutes
1/2 Stop Loss	1 hour
1/2 Take Profit	4 hours
	8 hours
1/2 Martingale coefficient	1.6

Importantly! During the countdown, all the functions of the EA are blocked, it will not be possible to change the settings at this moment, you need to wait for the countdown time to expire.

Initial lot in the series = 0.01 – the volume of the first order in the series is not recommended to change it if you do not have experience in the martingale strategy.

Fixed martingale lot = 0.0 – fixed lot volume for all martingale orders, if it is 0.0 and the martingale coefficient is not higher than 1, then the lot volume of martingale orders will be equal to the volume of the last open order, if the fixed volume is greater than 0, then the martingale coefficient will not be taken into account. **Importantly:** during the trading cycle, you can change the size of a fixed lot, decrease or increase it and thereby reduce or increase the load on your deposit.

Max number of open orders = 8 – the allowed number of orders opened simultaneously by the EA, opened in the same direction as the first order.

Stop Loss = 0.0.

Take Profit = 12.

Update the take profit level = true - when manually opening a new order or closing one of the orders in the series, the EA will automatically calculate and set a new level of averaged take profit.

Virtual take profit = false - invisible to the broker take profit, it can be moved with your hands on the chart, orders are closed when the price reaches the take profit line, while the total profit for all orders must be greater than 0 otherwise orders will not be closed.

Importantly: if true is selected, the EA will automatically delete take profit from open orders.

Martingale coefficient = 1.6 – the martingale coefficient, a multiplier for martingale orders, will not be taken into account and will work if the "Fixed martingale lot" is greater than 0.

Mini step between martingale orders = 3 – the minimum distance in points from the nearest order in the opposite direction to open a new martingale order.

Indent for pending orders = 3 – the indent from the price for setting pending Buy Stop and Sell Stop orders.

Slippage = 3 – the level of slippage in points on the volatile market it is better to increase.

Block 2. RISK MANAGEMENT

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About Common Inputs

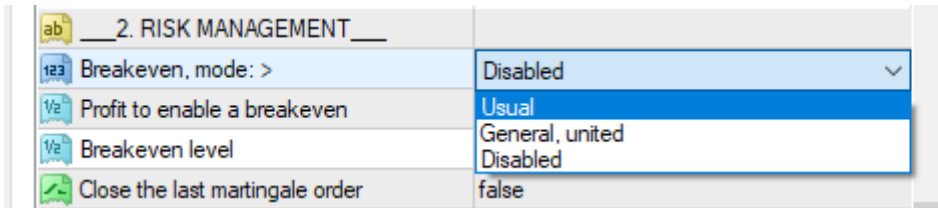
Variable	Value
ab ____2. RISK MANAGEMENT____	
123 Breakeven, mode: >	Disabled
1/2 Profit to enable a breakeven	12.0
1/2 Breakeven level	2.0
Close the last martingale order	false
123 After the specified orders	2
1/2 With a profit of at least, in the deposit c...	0.3
Fixed profit on transactions	false
1/2 Profit on transactions, in the deposit cu...	3.0
1/2 Stop trading with drawdown in %	70.0
1/2 Close all orders at drawdown in %	100.0
Close by Equity	false
1/2 Amount of Equity, in the currency of th...	0.0
1/2 Maximum amount of lots	100.0

Load Save

OK Отмена Reset

Breakeven, mode:

- **Usual** – breakeven for each order, individually;
- **General, united** – the average breakeven from the sum of profitable and unprofitable orders of the same direction;
- **Disabled** – breakeven is disabled and does not work.



Profit to enable a breakeven = 12 – level of take-profit in points, at which a breakeven is enabled.

Breakeven level = 2 – sets the level, at which a stop-loss must be moved: if set to 1, then the position will be closed, when the profit is 1 point; if set to 0, then the position will be closed with the profit of 0 points.

Close the last martingale order = f false, if true, the EA will automatically close the furthest order in the series if the price changes its direction and if the profit of this order is greater than the set value. Loss orders will remain, and if the price correction ends and the price goes in the right direction, the EA will be able to re-open a new martingale order when a new fractal level is broken. This will reduce the risk at a prolonged opposite price movement and at the same time increase profits!

After the specified orders = 2 - the "Close the last martingale order" command will start working only after 2 orders are opened, i.e. the third order will be closed. By changing the number of orders here, you can also change the set profit value of the last order.

With a profit of at least, in the deposit currency = 0.3 - the profit of the last order in the series to be closed by the "Close the last martingale order" command..

Fixed profit on transactions = f false – if true, then when the fixed profit value is reached on the current pair (on which the EA is installed), the EA will close all orders and immediately start a new cycle.

Profit on transactions, in the deposit currency = 3.0 – the amount of fixed profit in the deposit currency. The profit is taken into account only for the current instrument (currency pair), and not all the profit in the terminal!

Stop trading with drawdown in % = 70 – limiting the percentage of drawdown on the current instrument (currency pair) relative to the account balance. If the drawdown reaches the set value, the EA will stop opening new orders, but continue to monitor the remaining orders in the market. And they will be closed only if a stop loss or take profit is triggered. And in case of profit, trailing stop and breakeven will continue to work. The opening of new orders will be blocked until the drawdown is equal to 0 or a profit appears, then the blocking will be removed from the adviser and he will be able to continue working as usual. If you do not want to limit the work of the EA with this condition, set the value 100 here.

Close all orders at drawdown in % = 100 – if the drawdown reaches the set value, all orders will be closed and the EA will stop working. If you do not want to limit the work of the EA with this condition, set the value 100 here.

Close by Equity = false – if true, then close all open positions and delete all pending orders on the current currency pair when the account Equity reach the set value.

Amount of Equity, in the currency of the deposit = 0.0 – the amount of Equity at which all orders will be closed, the value may be higher or lower than the account balance.

Importantly! If the orders were closed by Equity or if the drawdown exceeds the set percentage, then the further work of the EA will be blocked! To remove the lock, you need to reinstall the EA, i.e. remove it from the chart and install it again!

Maximum amount of lots = 100 - limit on the total volume of all lots, open orders, one direction.

Block 3. TRAILING STOP

Variable	Value
ab ____3. TRAILING STOP____	
123 Mode selection: >	Disabled
123 Timeframe for trailing stop: >	1 Hour
123 Trailing stop by: >	Points
Virtual trailing stop	false
1/2 Trailing stop level	20.0
1/2 Step trailing stop	2.0
1/2 Indent from High/Low, fractal	2.0

Buttons: Load, Save, OK, Отмена, Reset

Mode selection: – the choice of strategy is the trailing stop:

- **Normal** - standard trailing stop, starts trail only when there is profit;
- **Total trailing stop** - by one (average) stop loss closes all open orders in one direction, including losing orders;
- **Disabled** - trailing stop is disabled.

ab ____3. TRAILING STOP____	
123 Mode selection: >	Disabled
123 Timeframe for trailing stop: >	Normal
123 Trailing stop by: >	Total trailing stop
Virtual trailing stop	Disabled
	false

Timeframe for trailing stop: = «1 Hour» - the choice of the timeframe for which the trailing stop will work on the extremes of the bar and on fractals.

123 Mode selection: >	Disabled
123 Timeframe for trailing stop: >	1 Hour
123 Trailing stop by: >	current
Virtual trailing stop	1 Minute
1/2 Trailing stop level	5 Minutes
1/2 Step trailing stop	15 Minutes
1/2 Indent from High/Low, fractal	30 Minutes
ab * * *	1 Hour
ab ____4. OTHER SETTINGS____	4 Hours
	1 Day
	1 Week
	1 Month

Trailing stop by: - selecting the type of trailing stop on the instrument:

- **Points** - standard trailing stop by points;
- **High/Low** - the High/Low of the previous bar;
- **Fractals** - by fractals.

123 Timeframe for trailing stop: >	1 Hour
123 Trailing stop by: >	Points
Virtual trailing stop	Points
Trailing stop level	High/Low
Step trailing stop	Fractals
	2.0

Virtual trailing stop = false - virtual (not visible for broker) a trailing stop.

Trailing stop level = 16 - trailing stop level in points.

Step trailing stop = 2 - step of trailing, if the profit is 14 points, trailing will move a stop-loss to 2 points.

Indent from High/Low and fractals = 2 - the distance in points from the stop loss to the maximum or the minimum of the bar or the fractal.

Block 4. OTHER SETTINGS

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About Common Inputs

Variable	Value
ab ____4. OTHER SETTINGS____	
Stop loss level modification signal	true
123 Language: >	English
123 Background: >	Dark 1
123 Font size in messages: >	Small
Show options panel	true
Show hot buttons	true
Show countdown	true
Deleting objects from the graph	false
123 Delete objects, in minutes	240

Load Save

OK Отмена Reset

Stop loss level modification signal = true – audio signals are allowed, if false, the sound is disabled.

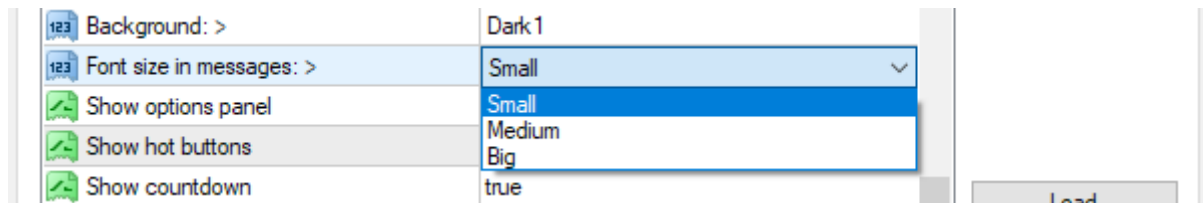
Language info panel = English - switch the language on the info panel can be Russian or English.

ab ____4. OTHER SETTINGS____	
Sound signal of order modification	true
123 Language: >	English
123 Background: >	English
123 Font size in messages: >	Russian
	Small

Background graphics = Dark1 - selects the color background of the chart Dark1 or Dark2 and Light.

Sound signal of order modification	true
123 Language: >	English
123 Background: >	Dark 1
123 Font size in messages: >	Light
Show options panel	Dark 1
Show hot buttons	Dark2
	true

Font size in messages:



Show options panel = true - displays textual information about the financial status of the account and currently active commands on the chart, if false, it does not show messages.

Show hot buttons = true - yes, show, false - no, do not show, "hot buttons" in the strategy tester do not work! **Importantly:** "hot buttons" in the strategy tester do not work!

Show countdown = true – show a countdown to the end of the pause before starting a new cycle.

Importantly: the countdown works in the tester, but the time is not displayed on the graph!

Deleting objects from the graph = true – allow clearing the chart from unnecessary graphical objects (arrows, modifications of stop loss levels, take profit, etc.).

Delete objects in minutes = 240 - clears the chart from unnecessary graphical objects (arrows, modified stop-loss and take-profit levels, etc.) in a certain period of time set in minutes passed from the moment, when an object is created.

Advice: "Experts" tab in Terminal window can help you understand, how the EA operates.

Advice: use a Strategy Tester built-in MetaTrader 4 in "**Visual mode**" mode to develop skills and gain a better understanding of principles of the EA operation.

You can obtain objective results by using "Every tick" mode. If accuracy of the results is not so important, and you want approximate results only, you can select "On the control points" mode.

The Strategy Tester will help you in developing your own strategy.

Deposit for martingale

What is the minimum deposit required to work on martingale? It is difficult to clearly answer this question, the amount of the required deposit depends on many factors, they can be divided into two large groups.

1. Trading conditions of your broker:

- your trading account type (standard or cent);
- the contract size of the base currency (100 000 or 10 000);
- the cost of the point in the size of 0.01 lot (0.1\$ or 0.01\$);
- the leverage is at least 1:500, but there are 1:1000 and 1:2000;
- the Stop Out level, when a broker forcibly closes your positions, one broker may have this indicator at 10%, and another at 40%;
- fixed or floating spread, with a fixed spread, optimization and order opening will be more accurate.

2. Your settings and your attitude to risk

For example, let's take one of the parameters, of the allowed number of open orders. Let's say you put there a limit of no more than 7 orders.

Your **broker A** (for example [RoboForex](#)) has contract size 100 000 base currency and the cost of the point with lot 0.01 = 0.10 \$.

7 allowed orders is $0.01 + 0.02 + 0.04 + 0.08 + 0.16 + 0.32 + 0.64$ and this is 1.27 of the lot!

If leverage of 1:500 on EURUSD for this lot size 1.27 a margin will amount 293.70. USD (05.11.2021)!

What is the minimum deposit required for such a situation? At least three times more 900-1000 \$.

If the number of allowed orders is greater, the deposit must be increased accordingly.

Let's see how it will be at another **broker B** (for example [InstaForex](#)) whose contract size 10 000 of the base currency and the value of the point is 0.01 \$.

On EURUSD with a leverage of 1:500 and lot 1.27, the deposit will be 29.37 USD (05.11.2021)! That is, the minimum deposit from this broker and with these settings can be only 90-100 \$.

Do you want to use Fractalan EA for free!

Go to the broker's website using the above links and open any account there (for RoboForex only accounts of the "Affiliate" type) then register on our website <http://taranus.ru/> and download any EA! In order for you to be able to use the EA on a real or demo. if you need to get and activate a registration key, see how to do it in more detail on [our website](#).

[www. taranus.ru](http://www.taranus.ru)

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