

Trend Side Indicator Instruction

Andrew's Trading Tools!

Thank you for being with us!

To familiarise yourself with the set of Trend Side indicators, we present you with this detailed instruction. In addition to the main Trend Side indicator, for customers who purchase the indicator, we provide the Trend Scanner, a multifunctional panel with three different trend and currency strength analysers, free of charge.

We hope that this set of products will be useful to you. This manual describes all the features of the Trend Side Algorithm Suite as well as the Trend Scanner Algorithms.

The Trend Side technical indicator, as well as Trend Side MT5, is available for sale in the official [mql5.com](https://www.mql5.com) Market, as well as directly in your trading terminal in the Market tab.

We sell our products only through the official Market of the developer of the trading terminal. All products offered in the official Market [mql5.com](https://www.mql5.com) are validated, which guarantees their safety in relation to the personal data of traders.

Trading in financial markets is a risky activity. By trading in the financial markets, you accept the responsibility that you can lose money. Our company is not responsible for your trading and possible losses. Before using it on real accounts, we strongly recommend that you start working with technical indicators in the strategy toaster, as well as on demo accounts, in order to better familiarise yourself with the work of indicators.

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If you have questions about using a technical indicator or scanner contact our team:

Via our official [mql5.com](https://www.mql5.com) account: <https://www.mql5.com/en/users/andrewfedotov>

Usually our technical support processes requests within one to two business days, but in rare cases, it may take a little longer for your request to be processed.

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Introduction

Trend Side is a complete solution for professional trend trading. Includes 4 professional tools for identifying market trends. The combined use of trend indicator functions with multi-currency and multi-period identification of trends and currency strength will give a deep understanding of current market trends, and what is needed for professional trend trading.

Advantages

Trend Side и Trend Side Scanner:

- ★ Extended trend identification,
- ★ Calculation of entry and exit points from a position based on the current volatility,
- ★ A single smart indicator system for full-fledged trading,
- ★ Suitable for any timeframes,
- ★ Works on any type of instrument.

The system is perfect for working on any trading pair, such as currencies, crypto instruments, metals, stocks, indices, and more. Suitable for working on any timeframes and has no restrictions.



Indicator Composition

Trend Side consists of four complete programs and is a four-in-one program. It includes the main trend indicator, a multi-timeframe trend analyser, a multi-currency scanner, and a currency strength analyser.

1) Main trend indicator

Trend indicator with an active market noise filtering system. It calculates entry, exit, and trading stop points, and also performs a statistical analysis of the success of its signals.

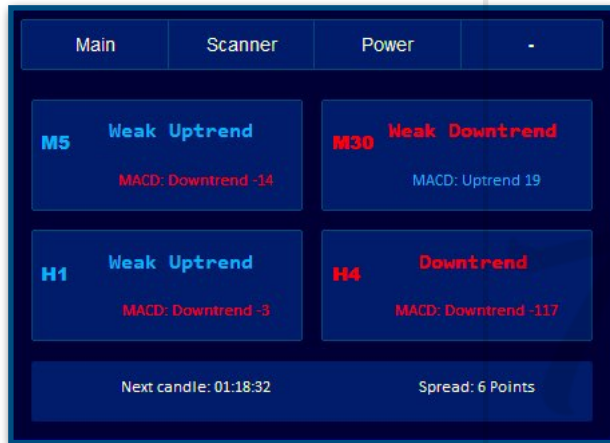
Advantages:

- ★ Never redraws its results,
- ★ The signal is strictly at the close of the candle,
- ★ Has dynamic TakeProfit and StopLoss levels,
- ★ Calculates the Trailing Stop level based on the current volatility of the instrument,
- ★ It has an advanced statistical module that analyses the success of previous trading signals.

TRENSIDE INDICATOR		
-		
TP1 Hit	145.879	145.282
	First TakeProfit price	Second TakeProfit price
SL	147.409	1195
	StopLoss price	StopLoss points
Type	Volume	Unit
Signals	91	Number
Win/Loss	60/20	Ratio
TakeProfit 1	335	Points
TakeProfit 2	932	Points

2) Multi-timeframe trend analyser

A powerful tool to instantly analyse the overall trend and its activity. An advanced system not only shows the direction of the trend but also its possible imminent reversal signals. Analyses the trend on the current instrument in 4 different timeframes, as well as the possibility of a trend reversal on these timeframes using the integrated MACD filtering to analyse trend activity on each timeframe and understand the possibility of an early reversal signal.



Advantages:

- ★ Display of the current trend on 4 timeframes, the choice of which is made in the input settings,
- ★ Multi-timeframe trend analysis with MACD oscillator,
- ★ Shows the trend, trend reversal signals, the possibility of an early trend reversal,
- ★ The most powerful tool for multi-timeframe trend filtering.

3) Multi-currency Trend Scanner

It has a multi-currency and multi-timeframe trend analyser. Comprehensive analysis of the trends of the entire market in one window.

Advantages:

- ★ Analyses the direction of the trend on any instruments and timeframes selected in the input settings,
- ★ Deep analysis of the entire market at a glance,
- ★ The indicator is suitable for all types of instruments,
- ★ Analyses the prevailing trend and displays its total direction for the analysed timeframes,
- ★ Analysis of the entire market in one window,
- ★ All indicators work like buttons and are transferred to the desired chart in one click.

Main	Scanner				Power				-		
EURUSD	M1	M5	M15	M30	H1	H4	D1	W1	MN1	Downtrend at 67%	
EURGBP	M1	M5	M15	M30	H1	H4	D1	W1	MN1	Downtrend at 78%	
GBPUSD	M1	M5	M15	M30	H1	H4	D1	W1	MN1	Uptrend at 56%	
GBPJPY	M1	M5	M15	M30	H1	H4	D1	W1	MN1	Uptrend at 78%	

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4) Currency Strength Analyser

Analyzes the strength of currencies based on the calculations of the pool of selected trading instruments. Currency strength can be calculated on a timeframe that differs from the current one.

Understanding the current strength of currencies will allow you to get a deeper understanding of the market, the behavior of a particular currency, not only in the current instrument, but also in all others, will allow you to distinguish short-term movements from more global market trends, and will also simplify the choice of instruments for trading in the current market situation.

Advantages:



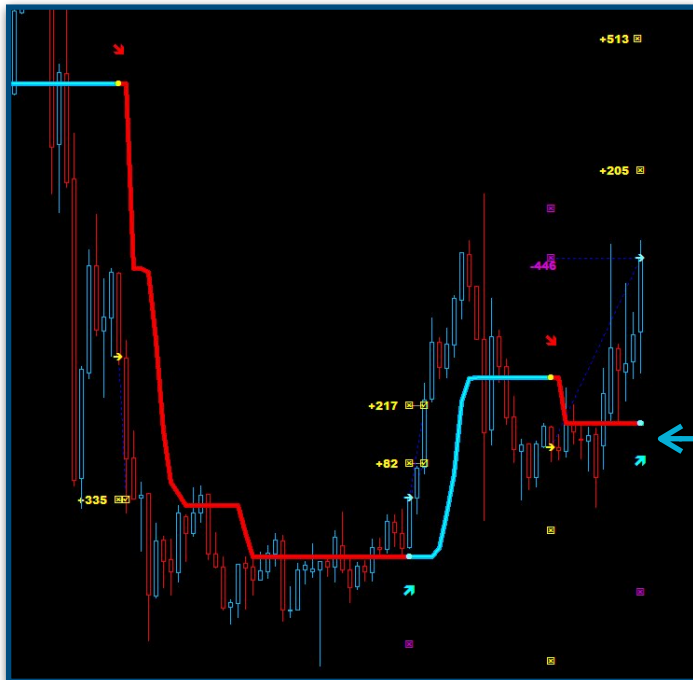
- ★ Andrew's Power Meter calculates the weakness and strengths of currencies by analysing all instruments at the same time,
- ★ It will help to distinguish the global trend from short corrective waves,
- ★ It is possible to select a timeframe different from the current one,
- ★ It can work both across the entire market and analyze only a few currencies.

Indicator strategy

With this indicator, a trader can carry out various work scenarios. In this section, you will find a description of possible strategies for working with the indicator.

1) Work on indicator signals:

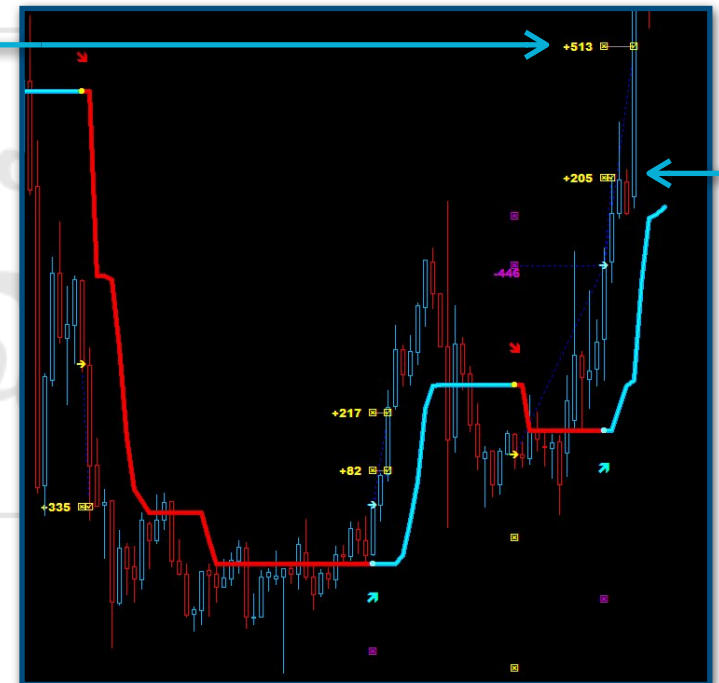
We open an order when a signal is received from the indicator. When the Take Profit 1 or Take Profit 2 marks are reached, we close the order.



1. Buy signal,

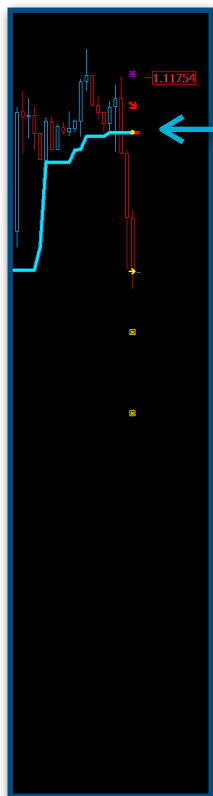
2. TP1 Hit + 205 points,

3. TP2 Hit + 513 points.

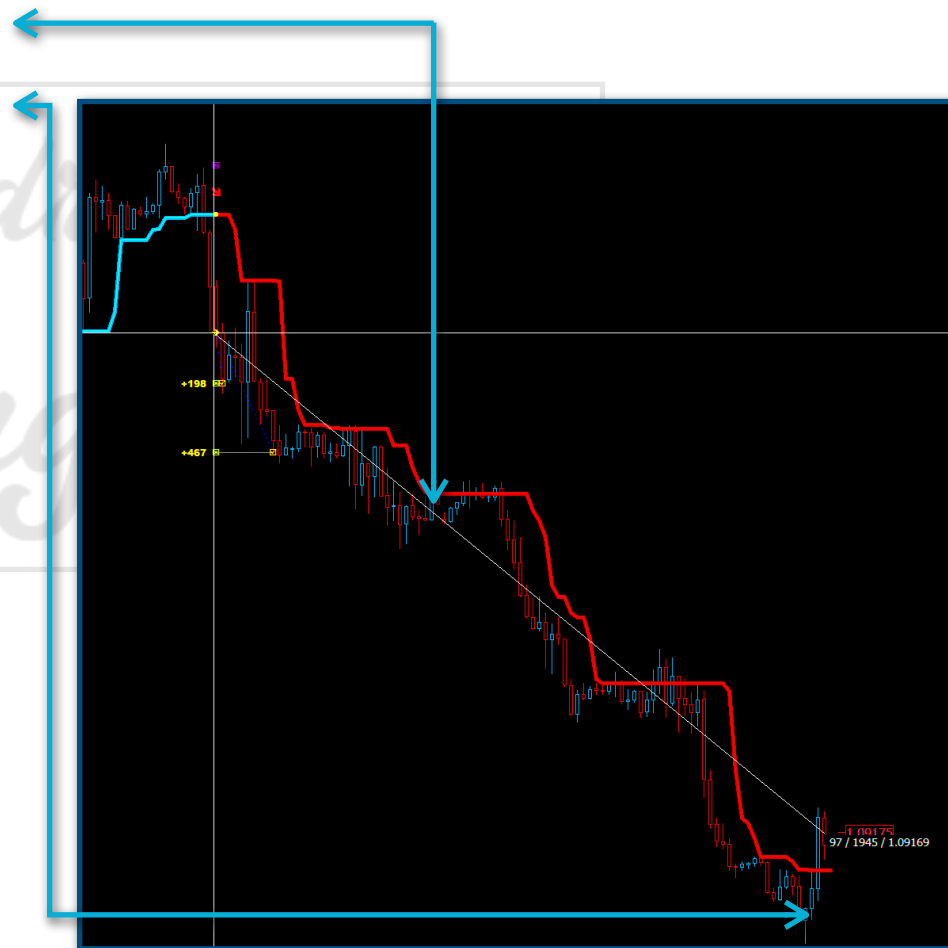


2) Working with Trailing Stop

We open an order when the indicator signal arrives and close the position using Trailing Stop.



1. Sell signal,
2. Extended Down trend,
3. Close by Trailing Stop + 1945 points.



3) Working with filtering signals from MACD with a multi-timeframe filter (MTF)

We check the direction of the trend on higher timeframes relative to the current one (M15) using a scanner (M30, H1 and H4 UP-trend), that is, the general trend is upward, therefore, we consider only Buy signals for opening.

1. Buy signal confirmed by MTF,
2. Opening a Buy order,
3. Closing a position (TP1 Hit, TP2 Hit) + 513 points.



4) Work on signals with filtering by currency strength

We check the signal on the currency strength tab. We see that the GBP currency is very strong, and the JPY currency is very weak. This means that when trading the GBPJPY pair, only buying can be considered at the moment. When a Buy signal arrives, open a position.



1. Buy signal confirmed by currency strength indicators (GBP is marked as a strong currency, JPY is marked as a weak currency)
2. Opening a Buy order
3. Closing a position (TP1 Hit, TP2 Hit) + 513 points

5) False signal filtering

On the current timeframe (M15) a sell signal was received, while on the multi-timeframe panel we see that most of the timeframes are directed in the opposite direction. Ignore such signals as the overall trend of the market is in the opposite direction. This will avoid sharp fluctuations.



1. Sell signal received on M15 timeframe
When higher timeframes indicate an Up trend,
2. The signal was false
- 3 TP levels are not reached, the order is closed at SL level - 162 points.

Description of panels

Several different panels are built into the system. Here is a detailed description of what exactly is presented in each panel and tab.

Main indicator panel

The main indicator panel is divided into two main parts:

1. Indicator name, panel minimization button.

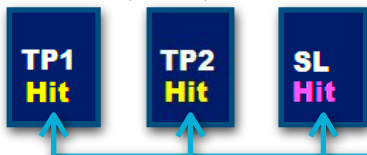


Button view when the panel is mini-displayed.

2. Price level data: TP and SL

Status of TP1, TP2 and SL levels.
Standard view (when installed),

Status type upon reaching
levels TP1, TP2, SL.



3. Statistical panel module with data
on the number of signals, on the basis
of which level calculations are made.

TRENSIDE INDICATOR		
TP1	0.64013 First TakeProfit price	TP2 0.64617 Second TakeProfit price
SL	0.62135 StopLoss price	1525 StopLoss points
Type	Volume	Unit
Signals	66	Number
Win/Loss	65/1	Ratio
TakeProfit 1	354	Points
TakeProfit 2	958	Points

Prices for TP1 and TP2,

Price for SL,

The data of the marks for the trunk line
(in points)

Total number of signals (in pieces),

The number of successful/unsuccessful
signals from the total number,

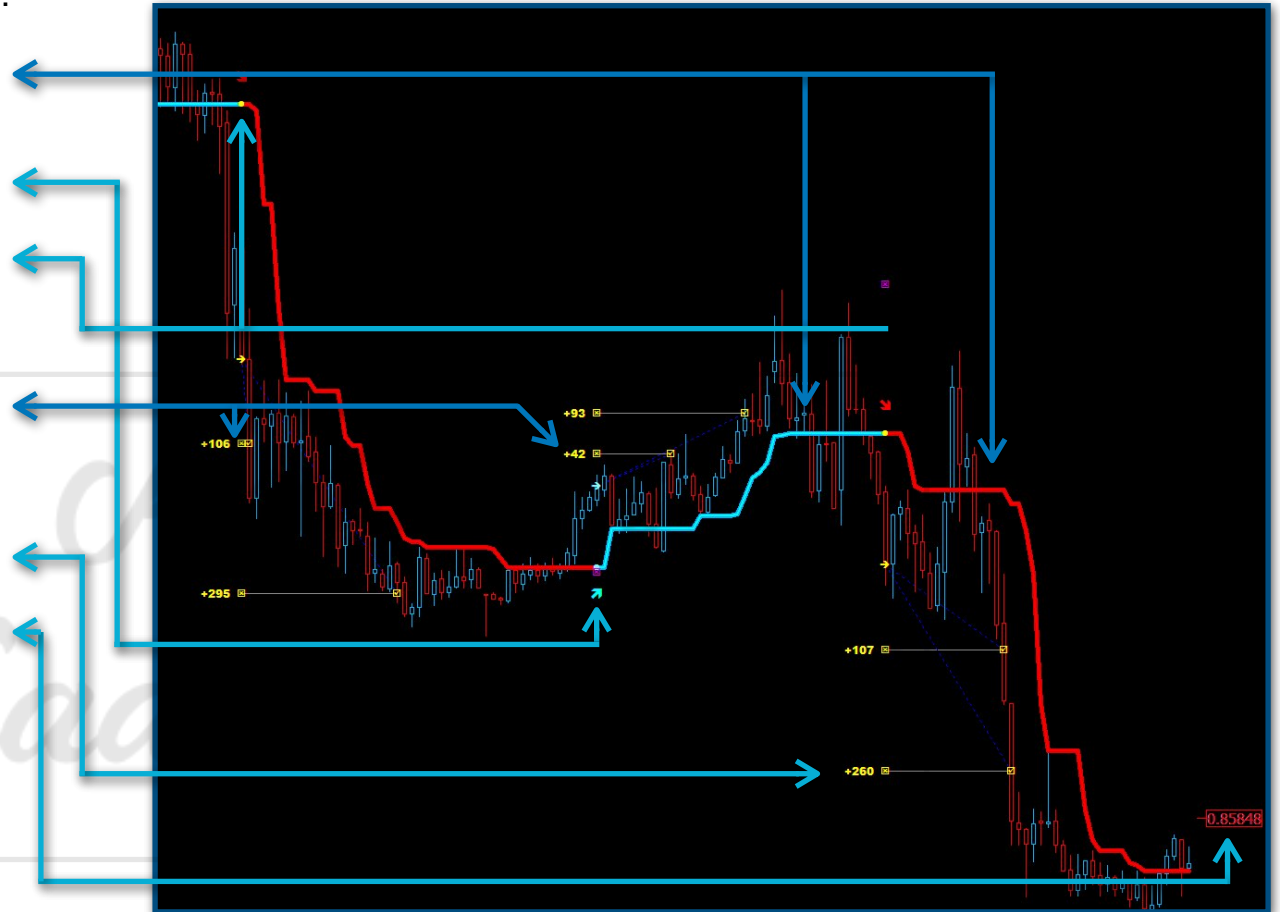
Data for TP1 (in points),

Data for TP2 (in points),

Indicator lines, indicator marks.

The indicator displays the following information:

- ★ Trend Direction
(blue - Up trend, red - Down trend),
- ★ Buy signal,
- ★ Sell signal,
- ★ TakeProfit level mark 1,
- ★ TakeProfit 1 mark,
- ★ TakeProfit level mark 2,
- ★ TakeProfit 2 mark,
- ★ Current price for the Trailing Stop level,
- ★ StopLoss level mark,
- ★ Mark of reaching the StopLoss level.



Scanner Description

1 - Main tab



The main tab of the scanner displays information about the current trend on 4 timeframes:

Timeframe name,

The current trend or signal of the Trend Side indicator on the block timeframe,

Indications of the MACD oscillator on the timeframe of the block,

Time until the start of a new candle,

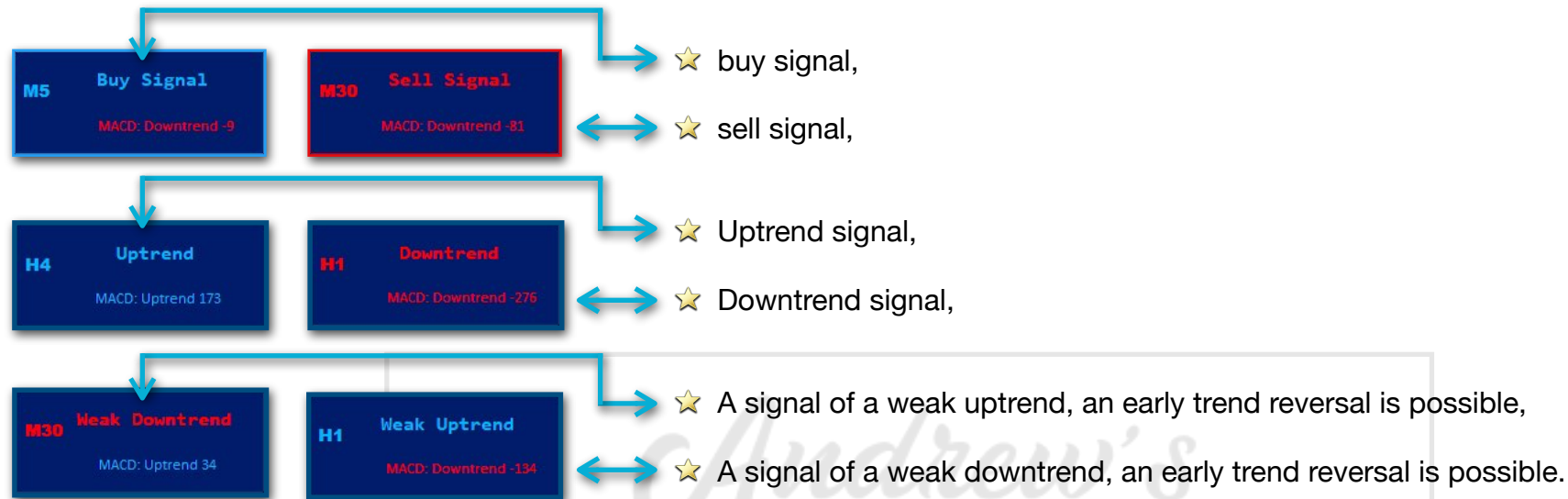
Current spread.

Minimized version of the scanner display.

"Why MACD"

MACD is a trend oscillator based on the difference between moving averages. This makes it the most sensitive additional filter that allows you to detect the activity of the current trend: as well as the possibility of an early reversal signal about a change in the direction of the trend.

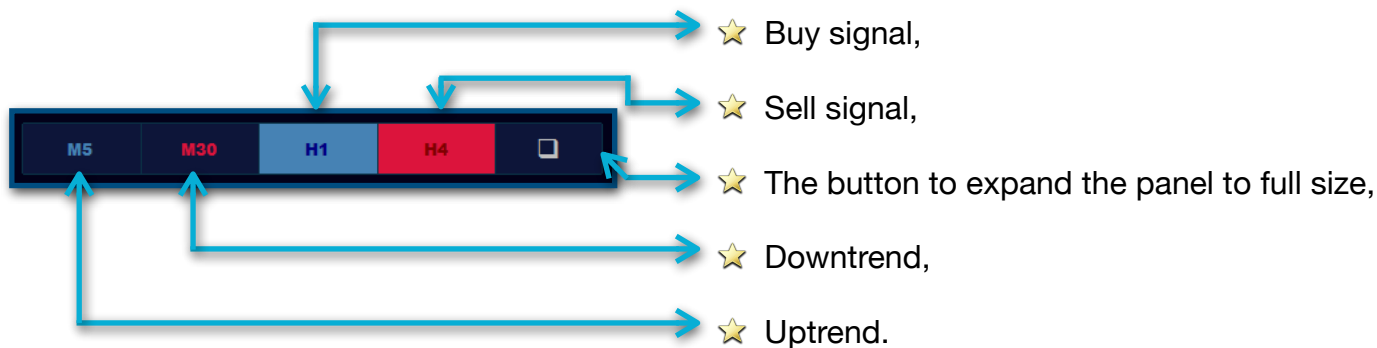
Each block displays one of 6 possible signal types:



The weakness of the current trend is determined by the direction of the MACD filter, the direction opposite to the direction of the current trend indicates a possible imminent reversal, as well as the weakness of the current trend.

1.1 - Minimised panel located under the main tab of the scanner

The minimised version of the multi-currency scanner displays data on 4 timeframes, 4 types of signal are available from the point of view of display:



2 - Multicurrency Scanner Tab

The multi-currency trend scanner displays the direction of the trend on selected symbols and timeframes. This is a multi-currency and multi-symbol panel. You can select any timeframes in any order and number, for this you need to enter them separated by commas in the input settings in the "Timeframes For Analysis" variable. Also, the number and list of symbols also fit in the input settings, separated by commas, into the "Symbols for scanner" variable. Depending on the number of timeframes selected, the panel will dynamically change its size and shape.

ab Symbols for scanner	EURUSD,EURGBP,GBPUSD,GBPJPY
ab Timeframes For Analysis	M1,M5,M15,M30,H1,H4,D1,W1,MN1

*Each item in the panel is a button for quick navigation between symbols.
To quickly switch between trading instruments and timeframes, click on the corresponding panel field.*

On the display scanner:

Main	Scanner	Power							
EURUSD	M1	M5	M15	M30	H1	H4	D1	W1	MN1
EURGBP	M1	M5	M15	M30	H1	H4	D1	W1	MN1
GBPUSD	M1	M5	M15	M30	H1	H4	D1	W1	MN1
GBPJPY	M1	M5	M15	M30	H1	H4	D1	W1	MN1

- ★ Parsed characters,
- ★ Downtrend on the selected timeframe and symbol,
- ★ Uptrend on the selected timeframe and symbol
- ★ The total trend for the selected Symbol,
- ★ Buttons for quick transition to the selected symbol and timeframe.

*An important part is the display field of the total trend.
In cases where the trend is in one direction on most timeframes, the indicator will write the current percentage of timeframes with a certain trend direction.
Calculations for each symbol are made based on the selected timeframes.*

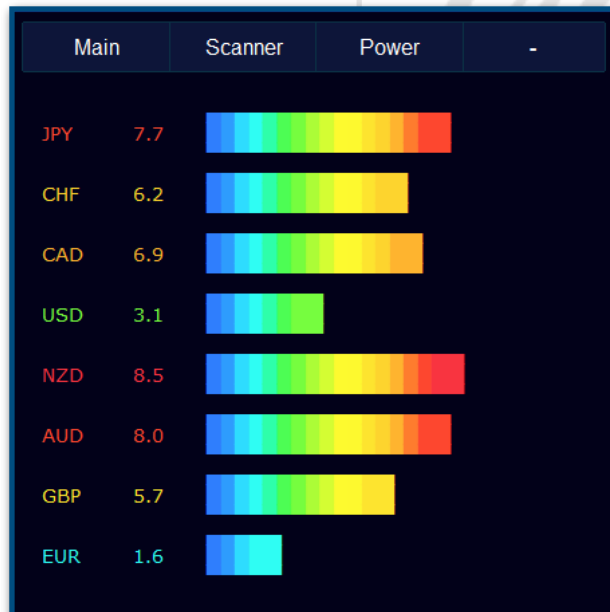
3 - Currency strength tab

This tab displays the strength of each of the selected currencies relative to each other. For display, the corresponding coloring of each currency is used, and numerical values are applied depending on the strength, in the range from 0 to 10.

Each currency is colored in the corresponding color, depending on its strength against other currencies. The colder the shade, the weaker the currency.

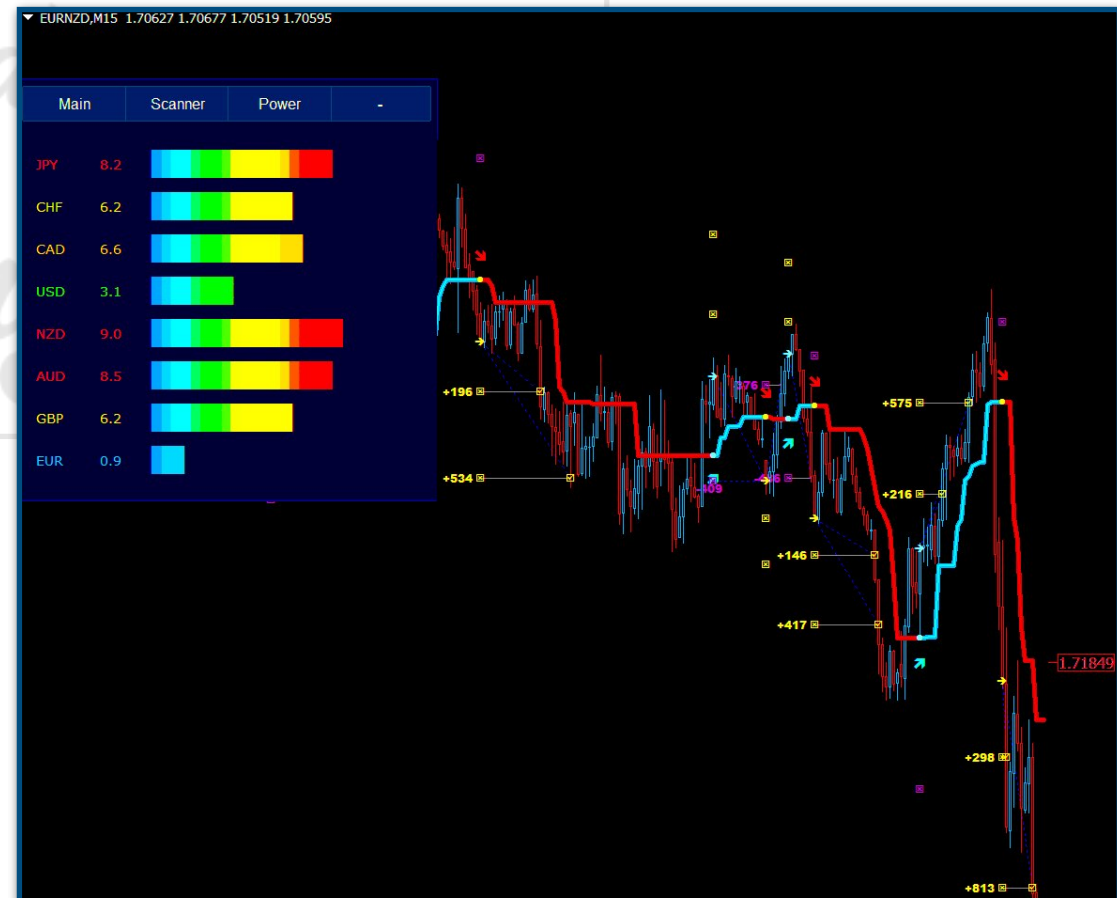
Colors for displaying tool strength:

- ★ Blue (the coldest) is the weakest currency,
- ★ Blue (cold) - weak currency,
- ★ Green (cool) - average value,
- ★ Yellow (warm) - average value,
- ★ Orange (hot) - strong currency,
- ★ Red (the hottest) is the strongest currency.



Sell weak currency buy strong currency.

As an example in the screenshot: We see that on the currency strength tab, EUR is a weak currency, and NZD is a strong one. This is also shown by the chart of the EURNZD pair, where you



Installation and launch

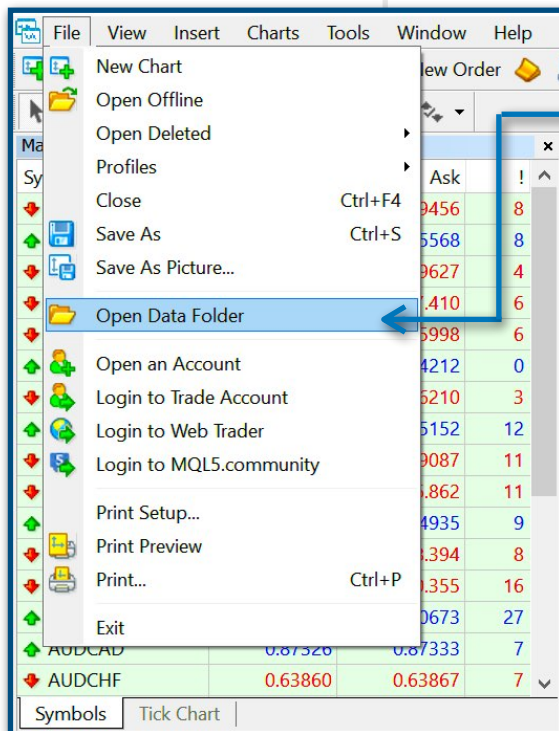
How to get a scanner:

We provide a multi-currency scanner as a separate product. The scanner is provided free of charge with the purchase of the main indicator.

To receive a scanner, after purchasing the indicator, please contact us through our official mql5.com account:

<https://www.mql5.com/en/users/andrewfedotov>

How to install the scanner:



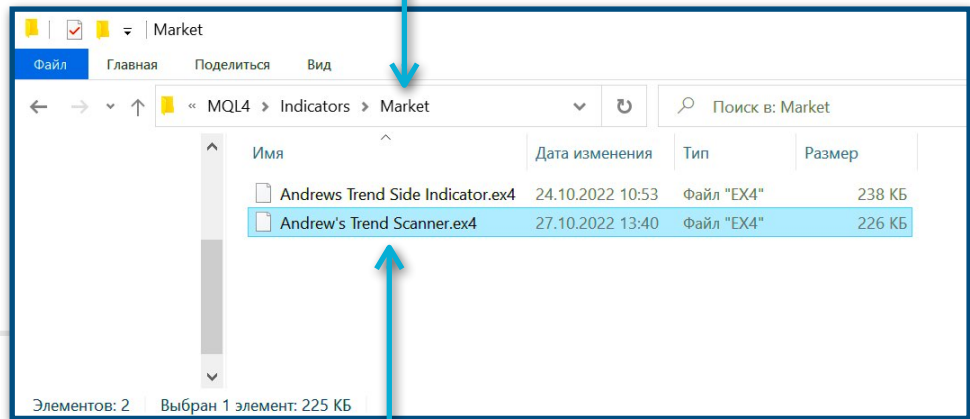
Step 1 - Open the shared file directory in your trading terminal.

When opening a data folder, you should open the MQL4 or MQL5 folder, depending on which MetaTrader terminal you are using. This folder contains all user files of your trading terminal.

Step 2 - Open the indicators folder

Next, open the Indicators folder, then the Market folder.

This folder contains files of all indicators, which you downloaded from the mql5.com Market.



Step 3 - Add the scanner file to the same folder as the main indicator

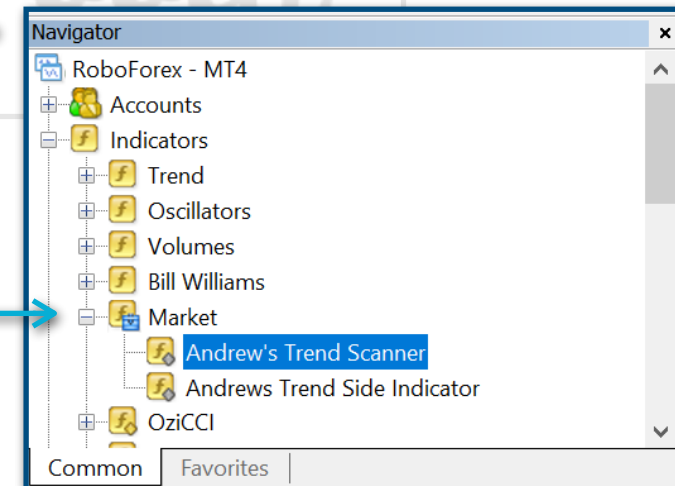
This folder should also contain the "Andrews Trend Side Indicator". The "Andrew's Trend Scanner" file should be added to this folder.

Step 4 - Check if the scanner is in the Navigator folder

The scanner and the main indicator must be in the same folder and you can open them through "Navigator".

Now the cat scanner is ready to use.

Double-click the left mouse button to launch the scanner or just drag it to the chart.



Important!

The scanner works only if you have an active license of the Trend Side indicator installed in your trading terminal.

List of input settings of the Trend Side indicator:

MAIN - Main indicator settings.

- ★ **Amplitude** - Signal sensitivity amplitude. The larger the value, the deeper the market noise filtering and the fewer signals.
- ★ **TP target** - Coefficient for distance of TakeProfit levels. The more, the further TakeProfit levels will be located from the signal price.
- ★ **SL target** - Coefficient for the distance of StopLoss levels. The larger it is, the further from the signal price the StopLoss level will be located.
- ★ **Max bars** - The maximum number of candles to calculate the indicator. The smaller the value, the less statistics of past signals will be, but the faster the indicator will work.

NOTIFICATIONS - Settings for various notifications that the indicator sends when a new signal appears.

- ★ **Alert** - Sending Alerts when a new signal appears.
- ★ **Mail** - Send notification via e-mail when a new signal appears.
- ★ **Notification** - Sending push notifications to the mobile version of the trading terminal.

GRAPHICS - Settings for displaying graphical elements of the indicator.

- ★ **Font size TP** - Font size for text labels of StopLoss, TakeProfit levels.
- ★ **Font size in panel** - Font size for the elements of the indicator panel.
- ★ **Show panel** - Enable/Disable the display of the indicator panel.
- ★ **Indicator at foreground** - Enable/Disable the display of indicator lines in the background relative to candles.

Scanner input settings list:

MAIN - Settings for the main tab of the scanner.

- ★ **First Timeframe** - Upper left block of the multi-timeframe scanner. Timeframe for analysis.
- ★ **First Amplitude** - Upper left block of the multi-timeframe scanner. Amplitude for the indicator.

- ★ **Second Timeframe** - Upper right block of the multi-timeframe scanner. Timeframe for analysis.
- ★ **Second Amplitude** - The upper right block of the multi-timeframe scanner. Amplitude for the indicator.

- ★ **Third Timeframe** - The lower left block of the multi-timeframe scanner. Timeframe for analysis.
- ★ **Third Amplitude** - The lower left block of the multi-timeframe scanner. Amplitude for the indicator.

- ★ **Fourth Timeframe** - The lower right block of the multi-timeframe scanner. Timeframe for analysis.
- ★ **Fourth Amplitude** - The lower right block of the multi-timeframe scanner. Amplitude for the indicator.

- ★ **Fast EMA MACD Period** - The period of the fast-moving average of the MACD indicator.
- ★ **Slow EMA MACD Period** - The period of the slow-moving average of the MACD indicator.
- ★ **Signal EMA MACD Period** - The period of the signal moving average of the MACD indicator.
- ★ **Applied price** - The applied price of the MACD indicator.

SCANNER - Multi-currency trend scanner tab settings.

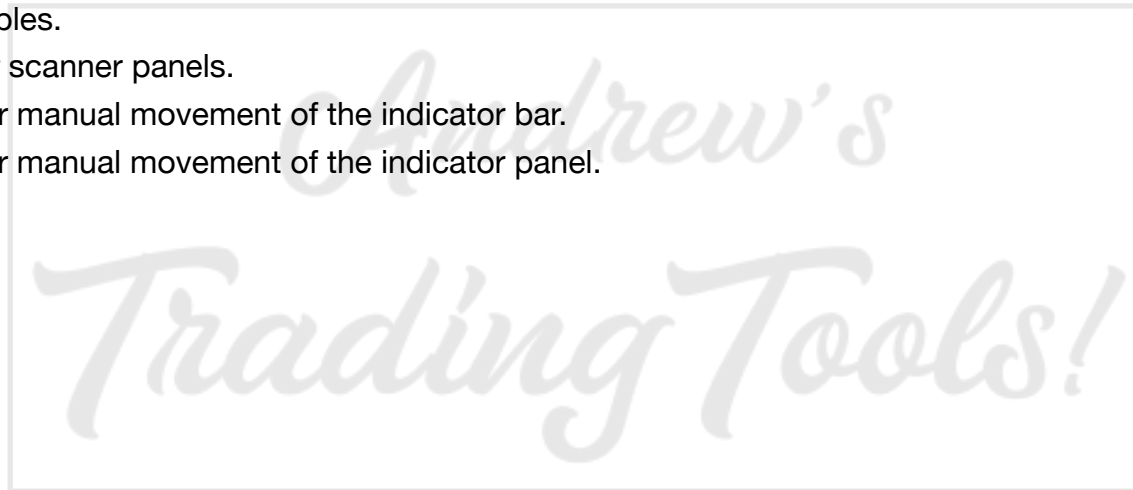
- ★ **Symbols for scanner** - List of symbols to analyze the current trend. Characters must be entered separated by commas ",".
- ★ **Timeframes For Analysis** - List of timeframes on which the current trend will be analyzed. Timeframes should be entered separated by commas ",".
- ★ **Amplitude** - The amplitude for the indicator that will be used to display the trend in the scanner.
- ★ **Max bars** - The maximum number of candles on the basis of which the trend will be calculated.

CURRENCY STRENGTH - Currency strength tab settings.

- ★ **Period of PowerMeter** - Timeframe based on which currency strength is calculated.
- ★ **Currency for calculation** - List of currencies for force calculation.
- ★ **Pairs for calculate** - List of pairs based on which the calculation is made.

GRAPHICS

- ★ **Panel Coordinates** - Location of the scanner on the chart. Location options are available in the upper left corner, under the indicator panel, to the right of the indicator panel, as well as manual adjustment of the scanner coordinates. Manual tuning is done using the X offset and Y offset variables.
- ★ **Font size** - Font size for scanner panels.
- ★ **X offset** - Coordinate for manual movement of the indicator bar.
- ★ **Y offset** - Coordinate for manual movement of the indicator panel.



For developers

Data for connecting the indicator to other trading algorithms is performed by the standards method through the connection via iCustom().

The data is presented in the table:

Data	Buffer number	Meaning	Shift
Current trend	1	1 - Uptrend, 2 - Downtrend	1
Signal	2	1 - Buy, 2 - Sell	1
TP1 level	3	-	1
TP1 Price	4	-	1
TP2 level	5		1
TP2 Price	6	-	1