



**Indicator Matrix User Guide**

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# 1 INTRODUCTION

This document covers how to configure the runwiseFX Indicator Matrix that will display a matrix multiple indicators across multiple timeframes, with an optional alert

## 1.1 Document Conventions

The following icons are used to throughout the document:



Take note – try to remember



Very important to take note of and remember - could cause undesirable results if ignored



Top tip – shortcut or other useful information that can make the system easier to use



Advanced feature/subject – can skip over when you are first learning how to use the system



Technical 'behind the scenes' detail that you don't strictly need to know but maybe interested in

## 2 Indicator Inputs

Don't worry if you don't understand something we can help!

Variable	Description
Important_alertThresholdPercentage	Threshold at which alert will happen, e.g. if set to 75 would mean 75% of indicators would need to agree for alert on the timeframe
Important_alertOnlyWhenAllSelectedMatch	If true then will only alert when all selected timeframes match, i.e. each alert ticked timeframe has reached Important_alertThresholdPercentage. If false (default) the will alert each timeframe individually. Note, see Main_alertAllResetLevel input as well.
Important_defaultAlerts	Set to 1 if alert should be on by default. Values are comma separated for each timeframe.
Important_periodsToShow	Periods (timeframes) to show. Values are comma separated.
Important_symbol	Symbol to show information for. If blank will be the symbol of the chart.
Main_alertAllResetLevel	Number of timeframes that need to have gone the other way before 'alert all' will happen again. This is used when Important_alertOnlyWhenAllSelectedMatch is true. If decrease the value then we re-alert more often. If value matches number of timeframes set to alert then all timeframes will have to have gone the other way before alert could happen again. For example: If set to alert on M5,M15,M30 and this input is at 2 then will re-alert if M5 and M15 (say) went the other way and then came back. However, if this input is set to 3 then M30 would have to have go the other way as well before another alert could happen later on.
Main_alertResetForTimeFramePrct	Percentage of indicators that need to go to opposite direction for an alert reset, which will allow another alert to happen if comes back to original direction for a particular timeframe. For example, if set to 50 then if have buy alert then will need to see 50% or more indicators go to sell for

Variable	Description
	another buy alert to happen later on. If negative value supplied then looks at percentage of indicators that are in agreement and will reset if drops below that level. For example, if set to -90 then if 90% or less indicators are no longer in agreement for buy (say) then would permit another buy alert if came back to being in agreement.
Custom $n$ _indicatorName	Name of indicator as appears in the Navigator panel in MetaTrader. If from Market then will need to include that sub-folder, e.g. Market\ADX Arrow
Custom $n$ _indicatorDisplayAs	What the indicator should be called when displayed in the matrix. Can be left blank and will just be truncated indicator actual name. Note, if name starts with !! then will print indicator value for various shifts and for the supplied color indexes, which can be many comma separated.
Custom $n$ _indicatorProperties	Allows indicator properties to be set that are different to the default. Should be comma separated and in the same order as they appear in the Indicator Inputs tab. Only need to specify up to the one you want to change. See section 3 for more guidance.
Custom $n$ _colorIndex	Color index of the indicator to be used to work out if buy or sell should be shown in the matrix. Can be comma separated if one index is used for buy and a second for sell. In this case the buy index should be put in first. Four values can also be specified; first two for buy and second two for sell. If -1 is specified then will use current market price.
Custom $n$ _shift	The offset from the live candle for the indicator value to be used. If 0 then will value from live (latest) candle, else 1 would be candle just closed, etc. Most indicator are fine to 0 but indicators that do not draw on the live candle may require 1 to be set here.
Custom $n$ _midPoint	Used if single color index is supplied and caputreMethod is default. The variable gives mid point that represents the transition from buy to sell

Variable	Description
	and visa versa.
Customn_nullValue	Null value is used if more than one color index is supplied and gives the value that indicator has when the color is NOT shown. AUTO means will look for either 0 or EMPTY_VALUE. EV means will look for EMPTY_VALUE. A setting of -1 may be required for a small minority of indicators. Note, EMPTY_VALUE is the official value indicators are supposed to use to not display the color of the index. However, not all indicators abide by this – hence AUTO. With some indicators you made need to set this to -1.
Customn_captureMethod	<p>Gives the capture method, i.e. how the color indexes are interpreted. Here are the possible values:-</p> <p><b>Default:</b> Looks at value of one or more color indexes and sets buy/sell based on that value crossing mid-point, or if 2 colors indexes supplied then whichever buy or sell index is not null.</p> <p><b>Distance to Not Null:</b> Searches through the chart look for most recent dot/arrow (say) for supplied buy and sell color indexes, i.e. which candle the buy/sell index is not null.</p> <p><b>Use Not Null With Mid Point:</b> Looks at supplied color indexes and uses the value from whichever index is not null and sees if crossed mid point.</p> <p><b>Open and Close:</b> Treats supplied color indexes as open and close prices and sets buy/sell depending if bullish or bearish candle.</p> <p><b>Increasing/Decreasing:</b> Looks at supplied color indexes and uses the value form whichever index is not null. Will regard as buy if latest values show increasing value and sell if latest values show decreasing.</p> <p><b>Reversal:</b> Will signal buy when first color index crossed below 2<sup>nd</sup> index and signal sell when cross above 3<sup>rd</sup> index.</p>
Show_*	Allows the standard indicators to be turned on/off, in terms of being in the matrix and contributing to the alert
Box_*	Allows the position of the matrix to be changed

<b>Variable</b>	<b>Description</b>
Property_	Allows the properties of the standard indicators to be changed, e.g. period of moving average
Gen_alert*	Allows the alert to be sent to mobile / email

### 3 Setting Custom Indicator Inputs/Properties

It's possible to specify custom indicator inputs, e.g. to turn alerts off, remove unnecessary items the indicator displays or adjust settings. The inputs need to be supplied comma separated. If left blank then the defaults of the indicator will be used. If specified then should be in the order they are listed in the Inputs tab of the indicator. You only need to specify up to the ones you want to change.

Any text type inputs (denoted by ) should be specified in double quotes. Usually they are only comments, so can often just put "X".

Any boolean true/false inputs (denoted by ) should be replaced with 1 for true and 0 for false

Any drop-down selection lists (denoted by ) but this is also used for integer numbers) should be specified with the item number in the list, where top item in the list is 0, second one down is 1, and so on

Any colors (denoted by ) should be specified as a number. Usually, colors are just used visually when the indicator is loaded on the chart. So, as we are just interested in capturing indicators values you can usually just put 0.

Any numbers (denoted by ) (but also used for selection lists) or ) can be specified as is. Include any leading zeros, e.g. put **0.3** rather just **.3**

★★★★★  
**top  
tip**

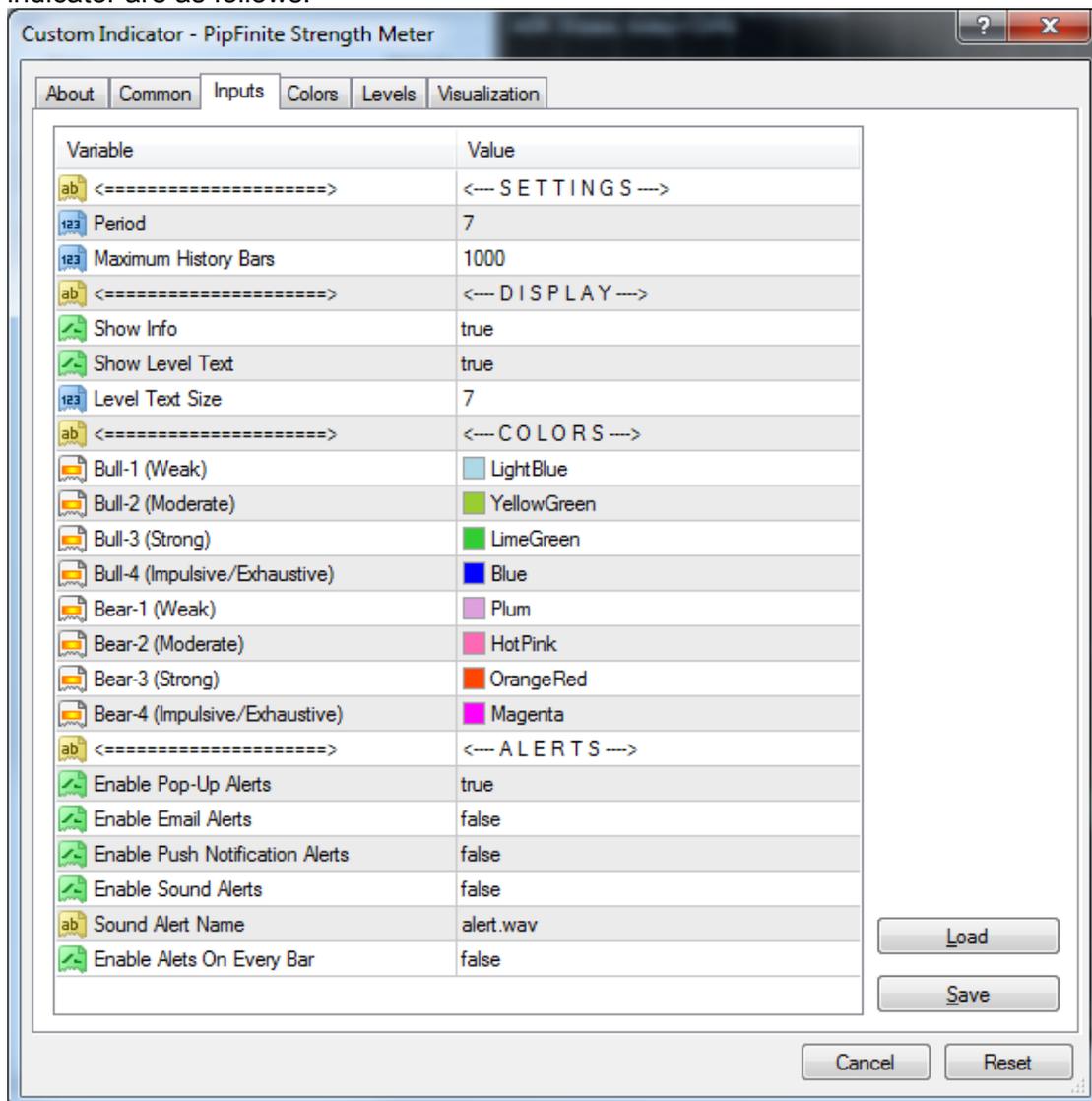
If you do need to set color type input and unsure of the value then recommend saving set file via Save button on MetaTrader inputs tab, as shown in the examples below. You can then open that file in a text editor (e.g. Notepad) and you will see something along the lines of *Color\_bull\_1=15128749*, which gives the integer value for the color that was set in the dialog.



When you've set the inputs read through them carefully at least three times to make sure not missed one out, or put one in twice, etc. Be careful that only string inputs  have double quotes.

**HERE ARE SOME EXAMPLES OF SETTING INDICATOR INPUTS**

**Example 1:** Turning off alerts on PipFinite Strength Meter. The inputs for the indicator are as follows:

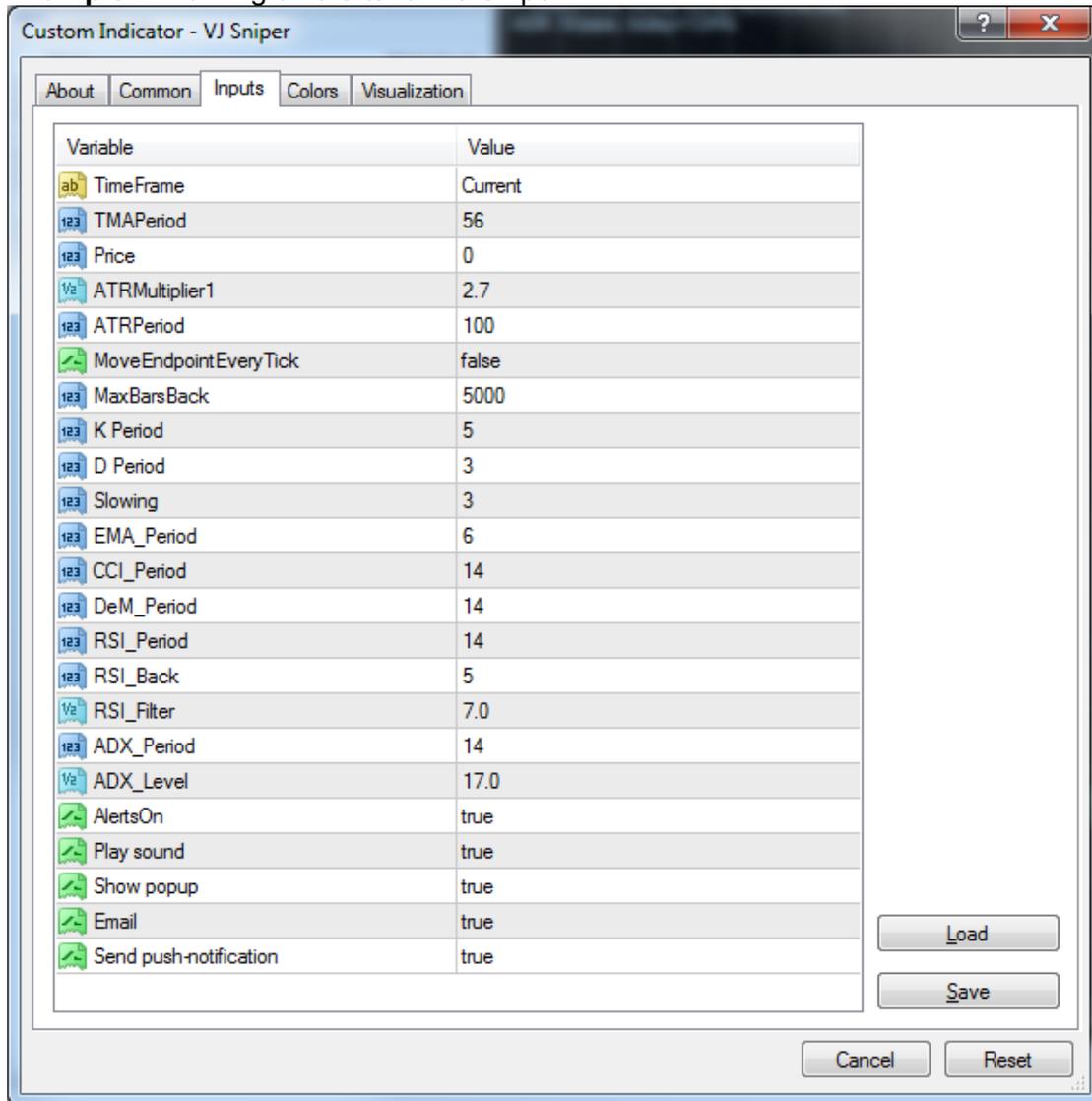


The indicator input properties to turn the display and alert off would be:

**"X",7,1000,"X",0,0,7,"X",0,0,0,0,0,0,0,"X",0**

As you see it was only necessary to give inputs up to 'Enable Pop-Up Alerts'. The inputs 'Show Info' and 'Show Level Text' where set 0, i.e. false, as that won't affect value captured but will reduce processor load/unnecessary items displayed

## Example 2: Turning off alerts for VJ Sniper:



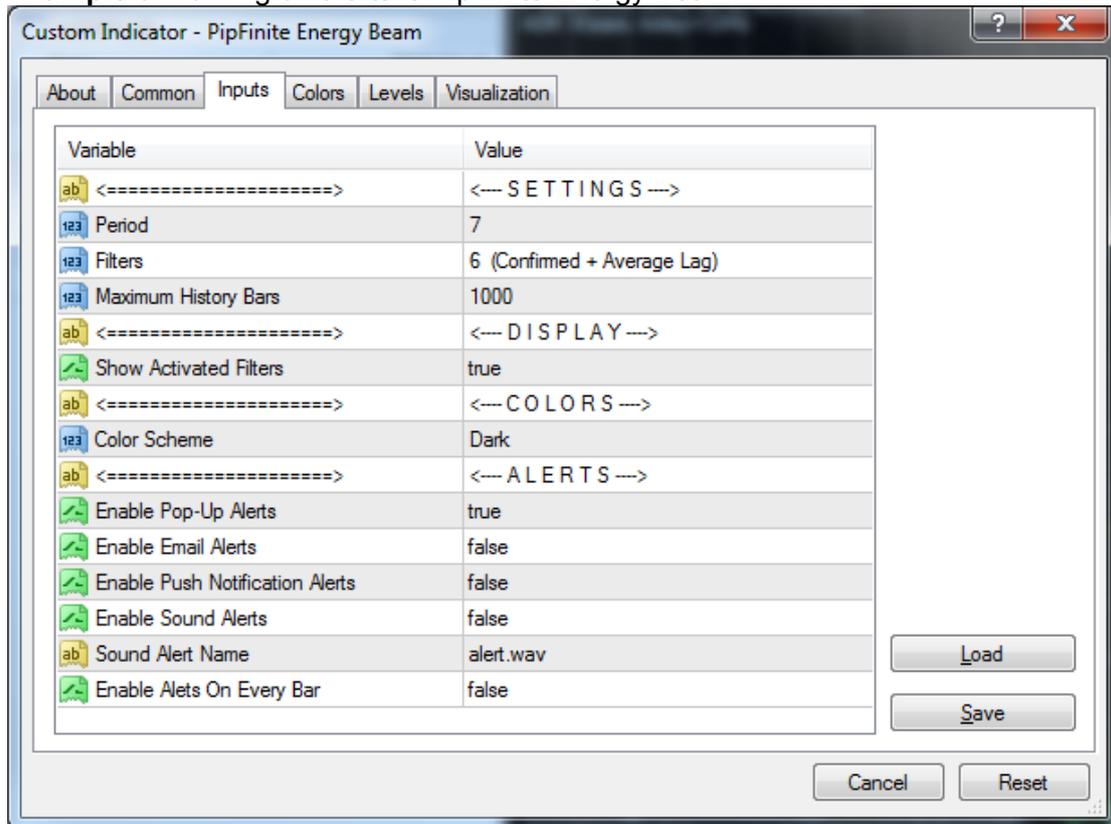
The indicator input properties to turn alert off would be:

**"Current",56,0,2.7,100,0,5000,5,3,3,6,14,14,14,5,7,14,17,0**

Note, string input TimeFrame is not a comment so did actually have to put "Current"

Note, with this indicator setting AlertsOn input to false (0) is sufficient.

**Example 3: Turning off alerts is PipFinite Energy Beam:**

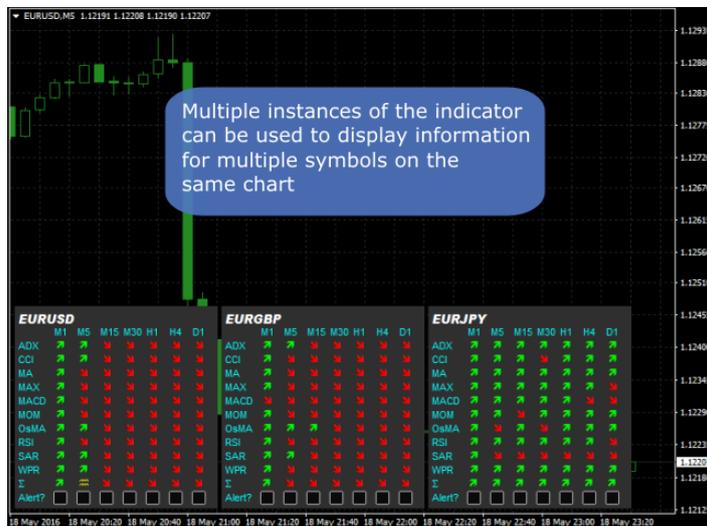


The indicator input properties to turn alert off would be:

**"X",7,1,1000,"X",1,"X",1,"X",0**

Here there are a couple of drop-down selection lists for Filters and Color Scheme inputs. Filters is set to 1 because '6 (Confirmed + Average Lag)' is second item down in drop-down list and the same for Color Scheme. Although, Color Scheme would not affect indicator value captured.

## 4 Multiple Symbol Support & Changing Position of Box



To achieve the above, add multiple instances of the indicator to the chart, using a different setting for the **Important\_Symbol** indicator input for each of the symbols you wish to show. Also vary the **Box\_X** and possibly **Box\_Y** inputs, as appropriate, in order to position the matrixes next to each other.

Once you are happy with the layout you may wish to save it to a MetaTrader template.

## 5 Examining Indicator Color Indexes

If you are struggling to work out the color indexes to use, you can get them printed out in the Experts tab on MetaTrader. This can be achieved by adding '!!' to `Customn_indicatorDisplayAs`.

The color indexes supplied `Customn_colorIndex` (which can be many – comma separated) will be printed for shifts 0 to 9. Note, shift 0 is the live candle and shift 1 is the candle just closed. The values are outputted comma separated in the same order as `Customn_colorIndex`. If you see 'EV' in the output then that stands for `EMPTY_VALUE`, which is the official value a color index should be set to if the color is not to be shown.

The values appear in the Experts tab in the Terminal panel of MetaTrader. This happens when the indicator is added to the chart or the properties changed.

When you no longer require the values to be outputted you can remove the !! from the `indicatorDisplayAs`.

## 6 Example Settings for Popular Indicators

Let us know if you would like us to add an indicator to this list. **Note, any settings not mentioned should be left at default.**

### 6.1 Candle Painter

```
Customn_indicatorName=Market\Candle Painter  
Customn_indicatorDisplayAs=CP  
Customn_colorIndex=1,0  
Customn_shift=1  
Customn_captureMethod=Open and Close
```

### 6.2 Centre of Gravity (MetaTrader 5)

This is a reversal type indicator where will signal buy when price crosses lower line and signal sell when crosses upper line.

```
Customn_indicatorName=Market\Centre of Gravity  
Customn_indicatorDisplayAs=COG  
Customn_colorIndex=-1,3,4  
Customn_shift=0  
Customn_captureMethod=Reversal
```

### 6.3 CCIVolumetric

```
Customn_indicatorName=Market\ CCIVolumetric  
Customn_indicatorDisplayAs=CV  
Customn_colorIndex=0  
Customn_shift=1
```

### 6.4 Custom Moving Averages

First example is period 70 EMA increasing/decreasing. Note, that third value in indicatorProperties needs to be 1 for EMA, as 2<sup>nd</sup> item in drop-down:

```
Customn_indicatorName=Custom Moving Averages  
Customn_indicatorDisplayAs=CMA  
Customn_indicatorProperties=70,0,1  
Customn_colorIndex=0  
Customn_shift=0  
Customn_captureMethod=Increasing / Decreasing
```

Second example is period 30 SMA price crossing. Note, color index of -1 represent current price. The capture method of Open Close covers values crossing each other as well.:

```
Customn_indicatorName=Custom Moving Averages  
Customn_indicatorDisplayAs=CMA2  
Customn_indicatorProperties=30,0,0  
Customn_colorIndex=0,-1  
Customn_shift=0
```

Customn\_captureMethod=Open Close

**Note, last example requires V2.8+ of Indicator Matrix**

## 6.5 Free Timing (MetaTrader 5)

This is a reversal oversold/overbought type indicator where will signal buy when indicator crosses below 20 and signal sell when crosses above 70.

Customn\_indicatorName=Market\Free Timing

Customn\_indicatorDisplayAs=FT

Customn\_colorIndex=0

Customn\_shift=0

Customn\_midPoint=20/70

## 6.6 Heiken Ashi (MetaTrader 4)

Customn\_indicatorName=Heiken Ashi

Customn\_indicatorDisplayAs=HA

Customn\_colorIndex=2,3

Customn\_shift=1

Customn\_captureMethod=Open and Close

## 6.7 Heiken Ashi (MetaTrader 5)

Customn\_indicatorName=Examples\Heiken\_Ashi

Customn\_indicatorDisplayAs=HA

Customn\_colorIndex=0,3

Customn\_shift=1

Customn\_captureMethod=Open and Close

## 6.8 PipFinite Breakout Analyzer

Customn\_indicatorName=Market\PipFinite Breakout Analyzer

Customn\_indicatorDisplayAs=PFBA

Customn\_indicatorProperties="X",4,1000,"X",0,0,0,7,0

Customn\_colorIndex=0,1

Customn\_shift=1

Customn\_captureMethod=Distance To Not Null

Customn\_nullValue=EV

Changing properties of Breakout Analyzer:

To prevent the indicator from alerting itself you can set:

Customn\_indicatorProperties="X",4,1000,"X",0,0,0,7,0,2,2,8,"X",0,0,0,0,0,"X",0

## 6.9 PipFinite Energy Beam

Customn\_indicatorName=Market\PipFinite Energy Beam

Customn\_indicatorDisplayAs=PFEB

Customn\_colorIndex=3,6  
Customn\_shift=1

## 6.10 PipFinite Exit Scope

Customn\_indicatorName= Market\PipFinite Exit Scope  
Customn\_indicatorDisplayAs=PFEB  
Customn\_colorIndex=3,2  
Customn\_shift=0

## 6.11 PipFinite Razor Scalper

Customn\_indicatorName=Market\PipFinite Razor Scalper  
Customn\_indicatorDisplayAs=PFRS  
Customn\_colorIndex=3,4  
Customn\_shift=1  
Customn\_captureMethod=Distance To Not Null

## 6.12 PipFinite Strength Meter

Customn\_indicatorName= Market\PipFinite Strength Meter  
Customn\_indicatorDisplayAs=PFSM  
Customn\_colorIndex=0,1  
Customn\_shift=1

Changing properties of Strength Meter:

To prevent the indicator from alerting itself you can set:

Customn\_indicatorProperties="X",7,1000,"X",0,0,7,"X",0,0,0,0,0,0,0, "X",0

## 6.13 PipFinite Swing Control

Customn\_indicatorName=Market\PipFinite Swing Control  
Customn\_indicatorDisplayAs=PFSC  
Customn\_colorIndex=0,1  
Customn\_shift=1

Changing properties of Swing Control:

To prevent the indicator from alerting itself you can set:

Customn\_indicatorProperties="X",5,5,1000,"X",0,"X",0,0,0,0,"X",0

## 6.14 PipFinite Trend Laser

Customn\_indicatorName=Market\PipFinite Trend Laser  
Customn\_indicatorDisplayAs=PFTL  
Customn\_colorIndex=0,1

Changing properties of Trend Laser:

Note to prevent the indicator from alerting itself you can set:

```
Customn_indicatorProperties="X",3,1000,"X",1,7,1,2,15,8,1,"X",2,1,"X",0
```

To both change period to 5 (second comma separated value) and turn off alerts:

```
Customn_indicatorProperties="X",5,1000,"X",1,7,1,2,15,8,1,"X",2,1,"X",0
```

## 6.15 PipFinite Volume Critical

```
Customn_indicatorName=Market\PipFinite Volume Critical
```

```
Customn_indicatorDisplayAs=PFVC
```

```
Customn_colorIndex=3,4
```

Note, just works on extreme over sold, over bought. If over bought (say) the will show down arrow to indicate possible reversal.

## 6.16 PreviousTwoBarsV4

```
Customn_indicatorName=PreviousTwoBarsV4
```

```
Customn_indicatorDisplayAs=PTB
```

```
Customn_colorIndex=0,1
```

```
Customn_indicatorProperties=0,0,0,0
```

## 6.17 RSI (above 70/below 30 or as reversal)

```
Customn_indicatorName=RSI
```

```
Customn_indicatorDisplayAs=RSI
```

```
Customn_colorIndex=0
```

```
Customn_indicatorProperties=14
```

```
Customn_midPoint=70/30
```

Note, the above will alert buy if over 70 and sell if under 30. If want to alert sell if above 70 and buy if below 30 then set mid point to 30/70. To change period of RSI then just change the 14 to value you require. Will work with other similar indicators such as CCI.

For MetaTrader 5 replace Customn\_indicatorName=RSI with

```
Customn_indicatorName=Examples\RSI
```

## 6.18 Stochastic (signal crossing main)

```
Customn_indicatorName=Stocastic
```

```
Customn_indicatorDisplayAs=STC
```

```
Customn_colorIndex=1,0
```

```
Customn_captureMethod=Open and Close
```

The Open and Close capture method gives buy condition if first color index is greater than second color index, and sell if visa versa.

## 6.19 Stridsman

```
Customn_indicatorName=Stridsman  
Customn_indicatorDisplayAs=SM  
Customn_colorIndex=3  
Customn_midPoint=500000
```

Note, although this indicator has two color indexes, it always shows green color (index 2), i.e. always set, but the red appears on/off over the top of it. Therefore, just need to consider red color (index 3) which is a large value if not set else lower if set, i.e. < 500000.

## 6.20 TDI (Reversal Strategy)

Will signal buy when green line(color index 4) goes above upper blue (color index 1) and sell when goes below lower blue (color index 3).

```
Customn_indicatorName=TDI  
Customn_indicatorDisplayAs=TDI  
Customn_colorIndex=4,1,3  
Customn_shift=1  
Customn_method=Reversal
```

Note, if you have AT\_TDI version of this indicator, which uses different color indexes for the same thing, then set Customn\_colorIndex=3,0,2

## 6.21 Tipu Heiken Ashi Pro ([link on MetaTrader Market](#))

```
Customn_indicatorName=Market\Tipu Heikin Ashi Pro  
Customn_indicatorDisplayAs=THAP  
Customn_colorIndex=2,3  
Customn_shift=1  
Customn_method=Open and Close
```

## 6.22 Tipu Impulse Oscillator ([link on MetaTrader Market](#))

```
Customn_indicatorName= Market\Tipu Impulse Oscillator  
Customn_indicatorDisplayAs=TIC  
Customn_colorIndex=0,1
```

# 7 CONTACTS

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