Supply and Demand Support Expert Advisor

(SD_Support_EA)
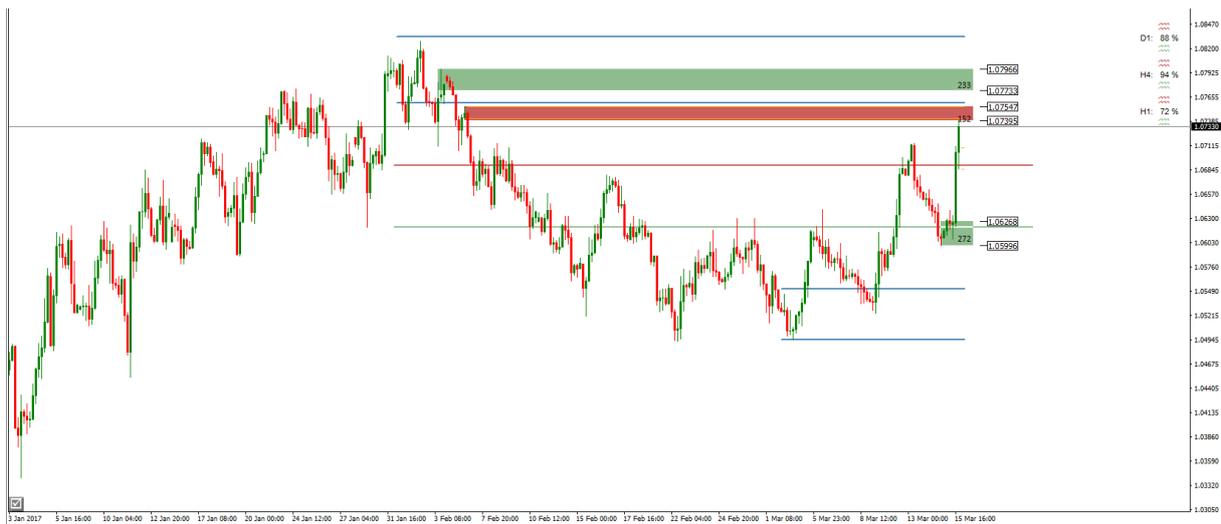
Index

Thanks

- to you Michael aka AKT for Supply and Demand knowledge, visit his thread at ForexFactory.com or his youtube channel here.
- to you Denis, visit his youtube channel here.
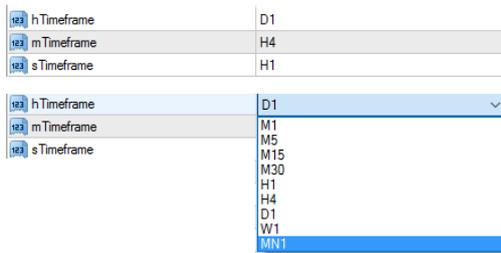- to all of the group members of Storehouse Roundtable

Disclaimer

Trading is risky. You can loose all of your capital. I dont guaratee anything and dont take responsibility. It is your decision to use the the programm (Expert Advisor, EA)

Settings

I will go through the EA (Expert Advisor) settings step by step. Hopefully not leaving something unclear. Take your time ☺

General

123 hTimeframe	D1
123 mTimeframe	H4
123 sTimeframe	H1

123 hTimeframe	D1 ⌄
123 mTimeframe	M1
123 sTimeframe	M5
	M15
	M30
	H1
	H4
	D1
	W1
	MN1

This will define your sequence. Make sure you have a valid (supply and demand) sequence, it will cooperate with other settings.

*hTimeframe – highest/biggest Timeframe -> mTimeframe – middle/intermediate Timeframe -> sTimeframe – smallest/lowest Timeframe

RectangleRead	true
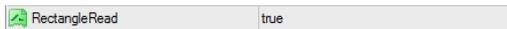
true: will extend the rectangle, set price labels at its high and low and show the wideness in points, draw lines at high and low to see the rectangle also in lower or higher timeframes.
false: will not do anything with the rectangle and leave it as you drew it

clrDemand	DarkSeaGreen
clrSupply	IndianRed
clrSlightlyTestedDemand	LightGray
clrSlightlyTestedSupply	LightGray
clrTested	DarkGray
clrUsedUp	Gray

Choose the colors for Supply and Demand. A rectangle will be reconized as Supply when there is no bar (no high) above the rectangle. A rectangle will be reconized as Demand when there is no bar (no low) below the rectangle.

If price has not visited the rectangle after leaving it (fresh zone) the rectangle will get the color of clrDemand or clrSupply. If we have one revisit (one test, not fresh) of price in the rectangle which penetrates the zone less than 25% of its size it will get the color of clrSlightlyTestedDemand or clrSlightlyTestedSupply. One test with more than 25% but less than 50% penetration will get the color of clrTested. More than one test or a penetration of more than 50% will get the color of clrUsedUp.

123 Extension	5

How far the rectangles and lines will be extended to the right from actual price bar (bar 0 - Extension).

123 ShowSmallerLines	1

Shows the lines (zone drew in smaller timeframe) in the timeframe you are looking at. Choose how many smaller timeframes (its zones) should be visible on current timeframe.

MN1_lineclr	Black	
MN1_linestyle	0	
MN1_linewidth	0	
W1_lineclr	Black	
W1_linestyle	0	
W1_linewidth	0	
D1_lineclr	Black	
D1_linestyle	0	
D1_linewidth	0	
H4_lineclr	Black	
H4_linestyle	0	
H4_linewidth	0	
H1_lineclr	Black	
H1_linestyle	0	
H1_linewidth	0	
M30_lineclr	Black	
M30_linestyle	0	
M30_linewidth	0	
M15_lineclr	Black	
M15_linestyle	0	
M15_linewidth	0	
M5_lineclr	Black	
M5_linestyle	0	
M5_linewidth	0	
M1_lineclr	Black	
M1_linestyle	0	
M1_linewidth	0	

Set the look for automated created lines when a rectangle is drawn. Those lines will not be visibly on the same timeframe the rectangle is drawn, only on lower or higher timeframes. To distinguish between where the zone has been drawn choose different settings for each timeframe.

Linclr for color

Linestyle for type of line

Linewidth for thickness

clrPriceLabels	Black
widthPriceLabels	1

Set color and width for automated created price lables. (only visible in the timeframe the rectangle/zone is drawn)

SetTrendlineVis_CurrentTFonly	true
SetChannelVis_CurrentTFonly	true
SetFibonnaciVis_CurrentTFonly	true
SetTriangleVis_CurrentTFonly	true
SetEllipseVis_CurrentTFonly	true
SetTextVis_CurrentTFonly	true
SetArrowVis_CurrentTFonly	true

When true for the kind of object, the visibility of the object will be set to the timeframe where its drawn only.

False – kind of object drawn will be visible in all timeframes as default.

Curve

DrawCurveLines	true

true – when Supply and Demand zones on curve timeframe (hTimeframe) are drawn, the EA will create two lines between them to quickly asses where we are on the curve. false – the curve line are not created.

ShowCLinesTFsLower	2

Set the visibility for the curvelines. They are shown in 2 lower timeframes.

Curve_LoPCT	33.33
Curve_HiPCT	66.66

Set the percentages for the curve low and curve high. It is calculated between Supply (100%) and Demand (0%).

clrCurveLo	DarkSeaGreen
clrCurveHi	IndianRed
Curve_linestyle	0
Curve_linewidth	2

Choose colors for the lines.

Type of line and thickness of curve lines.

CurveMode	ModeA	

Mode0 – will not show any information about curves on chart.

ModeA – will display information in the right upper corner. The timeframes will always be the 3 chosen for the curve (hTimeframe, mTimeframe, sTimeframe)

ModeB - will display information in the right upper corner. The timeframes will depend on the one you are looking at and a predefined sequence for this current timeframe.

ModeC – will display information within the Multichart in left lower corner when Multichart active. Timeframes depending on Multichart settings.

DisplaydCurves	Curves3	

Number of curves displayed (1-3) in ModeA or ModeB

ABModeYaxis	0	

Option to move down the information in ModeA or ModeB (pixels)

MultiChart

StaticMultiChart	true	

true – shows the charts of hTimeframe and mTimeframe.
false – shows predefined sequences for current chart.

MCscreenPCT	33.33	

Length of multichart in percentage of chart length.

MCscaleTF1	4
MCshiftTF1	false
MCscaleTF2	4
MCshiftTF2	false

MCscale is the zoomfactor 🔍 🔍 for the screenshots taken for multichart. MCshift if the chart shifted to the left 📊. TF1 and TF2 are the upper and lower screenshots.

Trading & Alerts

ManualTrading	true	

true – will display three buttons for trade operations (Limit Order, Stop Order, Market Order). false – will not display the three buttons, no trade operations allowed

ConfirmTradingButtons	true	

true – when one of the three buttons (Limit Order, Stop Order, Market Order) is pushed a popup shows up with information about the trade operation, you have to confirm or cancel. false – trade operation will not need to be confirmed, button click is enough.

ZoneAlerts	false	

true – popup alerts on selected zones (additional alerts possible). false – no alerts. See Functions-Alerts for more information.

NotificationAlert	false
EmailAlert	false

If NotificationAlert is true and you set your MetaQuotesID of Metatrader4 App in the Metatrader settings you will get notifications on the MT4 App. If your Email is set in Metatrader4 settings and EmailAlert is true you will get mails.

AlertLevelDevPCT	0.0	Calculates the price for alerts depending on percentage of zonewidth. 0 means the alert will appear when price hits selected rectangles. See Functions-Alerts for more information.

MagicNo	777	The number is used to identify orders opend/edited/closed by the EA. Choose yours.

AlwaysAllowed	true	If AlwaysAllowed is true trading operations by EA are allowed to any time. If false trading operations are only allowed between TradeStartTime and TradeEndTime. Local time is used. *Note: pending orders will be deleted outside those times.
TradeStartTime	07:00	
TradeEndTime	18:00	

CloseAtProfit	false	If CloseAtProfit is true and it's later than CloseAtProfitTime (local time) all Orders oft the instrument in profit will be closed. *Note: define TradeStartTime and TradeEndtime, else it would always be later. false – option off.
CloseAtProfitTime	20:00	

CloseBeforeMarketEnd	false	If CloseBeforeMarketEnd is true and it's later than CloseBeforeMarketEndTime (local time) all Orders oft the instrument will be closed. *Note: define TradeStartTime and TradeEndtime, else it would always be later. false – option off.
CloseBeforeMarketEndTime	21:55	

CloseAllAccountBalancePercent	false	If true Account Balance will be read on the first initialization of the EA. If Account Balance is lower than calculated AccountBalancePercentage the EA will close all orders. If false – option off.
AccountBalancePCT	87.0	

RiskPCTPerTrade	2.0	The amount of money in percent you want to risk per Trade. Example: your Account Balance is 1000 $, RiskPCTPerTrade is 2.0, your risk is 20$. The Lotsize will be calculated for 20$. See Functions-VolumeCalc.

RiskBasedOn	BALANCE	Your risk will be calculated on Account BALANCE or Account EQUITY.

SplitOrder	1	Split your orders in more trades to go for different profit targets. Example: if set 2, the money risk will stay the same, but you get two trades with 0.5 Lot instead of one trade with 1 lot. *Note: leave the stop the same, not changing your risk.

SetBreakEven	false	If SetBreakEven is true trades which are BE_RRratio*Risk in profit will set to breakeven. false – option off.
BE_RRratio	3.0	

PCT_DATR	2.0	Calculates the percent of Daily Average True Range (value is used for set stops).

Appearance

clrFont	■ Black
clrButtonFont	☐ White
clrButtonBG	▨ Gray
clrVC_EntryLine	■ Black
clrVC_SLline	■ Red
clrVC_TPline	■ LimeGreen

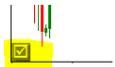The EA is made for a white background. Change the colors if you want to work with another backgroundcolor.

*VC=lines created with VolumeCalc button

RemoveAllOBJonDeinit	false

If true all objects are removed with EA removal. If false only the buttons and information is removed.

Functions & Buttons

Maximize/Minimize Menu

This button is one of the most important. It is located at the left lower corner. You can show or hide the whole button menu by a click on it. The Menu is hidden.

The Menu is shown.

It is necessary that you allow live trading (general EA settings) and allow AutoTrading ⊕ AutoTrading for the EA to do trade operations.

Delete/Close

A click on Delete/Close will delete all open pending orders and/or close all open trades of the instrument the EA is attached.

Risk/Trade

Change your initial risk percent (based on BALANCE/EQUITY) for an order by + or - . *Note: it will be reset to initial value (settings) when changing timeframes.

Volume Calculation

When you press the button VolumeCalc three lines will appear.

Volume Calculation (VolumeCalc button pushed) is necessary to place an order by the three buttons (Limit Order, Stop Order, Market Order). It calculates the lotsize based on your risk. You can now move the three lines to get the order you want.

The information shows the calculated lotsize based on your defined $ risk (% of account balance/equity). It also shows your required margin for this order and the risk to reward ratio (because of statistics, the R:R is not allowed to be lower than 1:1, lines will ajust automatically).

You can split your order in more trades…

by using the OrderSplit setting.

You can also select a zones price label, the lines will adjust. This makes the process of order placing more simple… Select the lower price lable if your plan is to buy the zone, select the higher price lable if your plan is to sell the zone.

Example of a lower price lable selected:

Lines will adjust:

Now you can still move the lines and when ready you can place your trade(s) by a click of Limit Order, Stop Order or Market Order. After the order is placed deactivate VolumeCalc Button to see your order drawn by MT4.

| buy limit | 0.19 | eurusd+ | 1.06536 | 1.05980 | 1.07091 | 1.07392 | ✕ |
| buy limit | 0.19 | eurusd+ | 1.06536 | 1.05980 | 1.07091 | 1.07392 | ✕ |

in this example i used limit order.

For different profit targets change the take profit of the trades. Using the Metatrader4 OneClick Trading.

Order Buttons

The Order Buttons will only work if the VolumeCalc Buttons is pressed, because you set your prices and lotsize with the lines of VolumeCalc button.

The EA will reconize if it is a buy or a sell order by looking at the stop line and entry line. If the stop is lower than the entry it is a buy, if the stop is higher than the entry it is a sell.

*Note: For Market Order Button the Entry will be ASK price if it's buy order and BID price if it's a sell order. Make sure your Stop Loss Line is in the right place.

MultiChart Button

When MultiChart Button is activated there are screenshots of higher/lower timeframe charts displayed in your current chart. Press the refresh button to update them.

*Note: Do not draw on the MultiChart screenshots it is limited to the current timeframe. Change the timeframe you want to draw an object and draw it there. Then the MultiChart will accept it.

ScaleFix Button

This will activate/deactivate the fixed scale option found with F8->General settings.

Zone Alerts

The Alerts will appear at selected zones only (once appeared the zone is unselected).

A selected rectangle will have small rectangles at its corners and one in the middle.

There are options to change the calculation of a price alert. But all options are used for all rectangles.

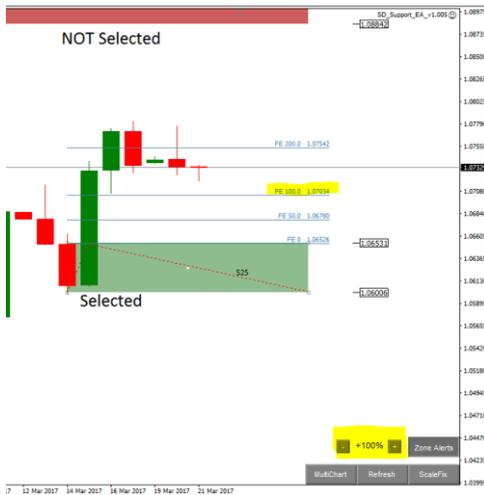An example of demand (supply is the opposite)…

AlertLevelDevPCT is set to 0.0, means you will get an alert when the zone is touched.

AlertLevelDevPCT is set to -101, means you will get an alert when the zone is broken.

AlertLevelDevPCT is set to 50.0, means you will get an alert when the price is close to 50% of zone wideness.

AlertLevelDevPCT is set to 100.0, means you will get an alert when the price is close to 100% of zone wideness (or close to a 1:1 Risk:Reward).

You can set AlertLevelDevPCT to every percentage you like. Just make sure 0.0 is always the rectangle close to price.

Alerts only on selected zones!

No difference for Zone Alerts. You can draw a rectangle and add the comment „Alert", this will not be considered as real supply or demand.

Hotkeys

NumLock hast o be active.

0 – Maximize/Minimize Menu

. – ScaleFix

1 – M1, 2 – M5, 3 – M15, 4 – M30, 5 – H1, 6 – H4, 7 – Daily, 8 – Weekly, 9 – Monthly

/ - MultiChart

* - Refresh

- - Zoom out

+ - Zoom in

The End