

AGILITY TRADER

Agility Trader is a versatile Expert Advisor which allows multiple entry and exit parameters based on differing time frames. Up to 5 conditions may be specified for each trade and each condition has multiple join options allowing limitless sets of trading ideas.

- **Many of your existing trading concepts can now be automated.**
- **Automatically trade support and resistance channels.**
- **Pending Orders and Straddle trades are handled automatically**
- **Advanced Money Management**

The signals include.

- Open Price
- High Price
- Low Price
- Close Price
- Highest Price within x bars
- Lowest Price within x bars
- Time
- Simple MA
- Exponential MA
- Weighted MA
- RSI
- MACD Main
- MACD Signal
- STOC K
- STOC D
- Boll Band Upper
- Boll Band Lower
- CCI
- PSAR
- ADX
- ATR
- Pivot Points
- Fibonacci
- Support
- Resistance
- Divergence Price / RSI
- Divergence Price /MACD
- Candle Bullish All
- Candle Bullish One
- Candle Bearish All
- Candle Bearish One
- Volume
- NonLagDot

A vast number of Money Management options are available including

- Basket Trading
- Wagers based on Equity (and optionally Stop Loss)
- Wager Increase Multiples
- Trailing Stop Loss
- Set Stop Loss to Breakeven
- Decrease Stop Loss Percentage
- Take Profit in Stages

All the options can be varied through the input Panel which contains over 350 inputs and a companion input program is available which eases the input considerably and will write and read **set** files. Sample input screens are enclosed. Whilst the companion program makes input considerably easier, it is not a required to run the EA.

In Summary - the inputs are categorized below

General Inputs

- Magic Number
- Comment to appear in Trade Journal
- Show Input Panel on Chart
- Trading Mode
- Alert Mode
- Base Currency
- Basket Inclusion
- Basket Stop Loss Level
- Basket Take Profit Level
- Lot Size Basis
- Equity Percentage
- Or Fixed Lot Size
- Maximum Slippage
- Straddle Trade Buffer
- Duration of Pending Order
- Wager Increase Multiple

Stop Loss Inputs

- Stop Loss Basis
- Nominated Value
- Bars for Calculation
- Stop Loss Buffer
- Trailing Stop Loss
- Update Stop Loss Frequency
- Set Stop Loss to Breakeven
- Decrease Stop Loss Percentage

Take Profit Inputs

- Take Profit Basis
- Nominated Value
- Bars for Calculation
- Take Profit Buffer
- Take Profit Stages

All the following conditions have these joins

- And
- Or
- Exclude
- And (
- Or (
- And)
- Or)

Buy Entry

- Trade Type (Market Buy, Limit Buy, Stop Buy, Straddle)
 - Buy Entry Condition 1
 - Buy Entry Condition 2
 - Buy Entry Condition 3
 - Buy Entry Condition 4
 - Buy Entry Condition 5

Buy Exit

- Buy Exit Condition 1
- Buy Exit Condition 2
- Buy Exit Condition 3
- Buy Exit Condition 4
- Buy Exit Condition 5

Sell Entry

- Trade Type (Market Buy, Limit Buy, Stop Buy, Straddle)
 - Sell Entry Condition 1
 - Sell Entry Condition 2
 - Sell Entry Condition 3
 - Sell Entry Condition 4
 - Sell Entry Condition 5

Sell Exit

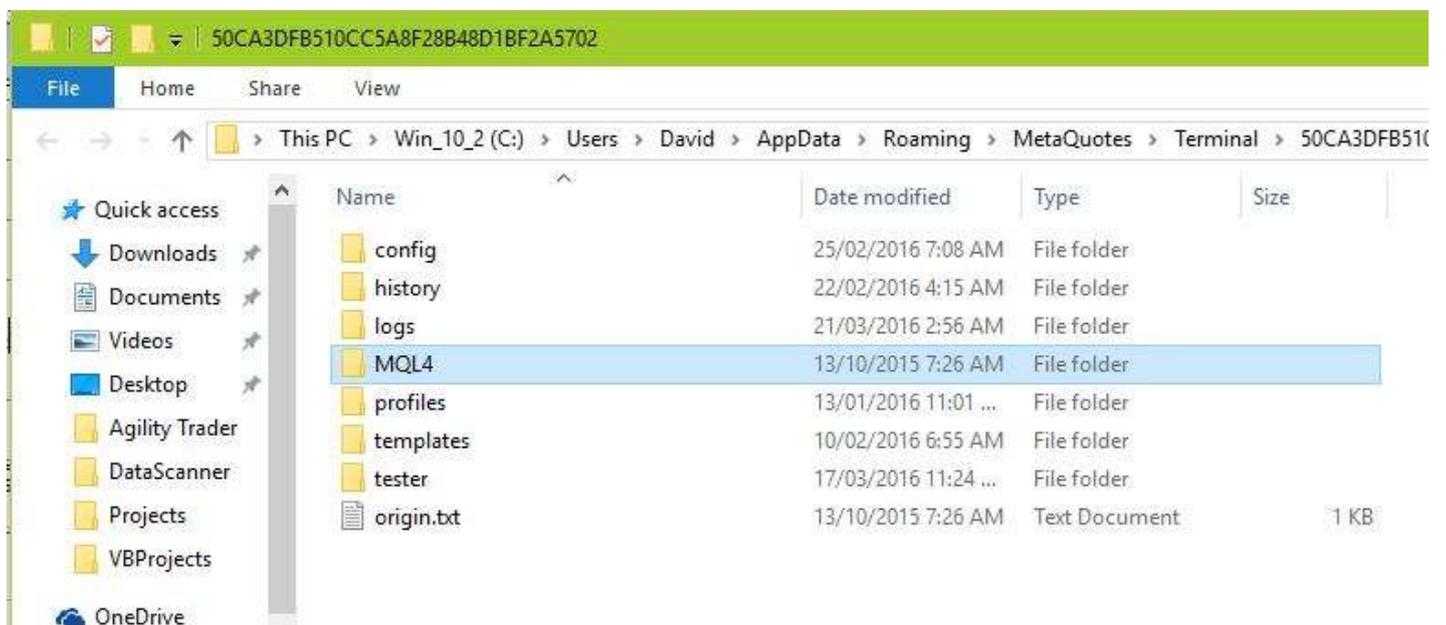
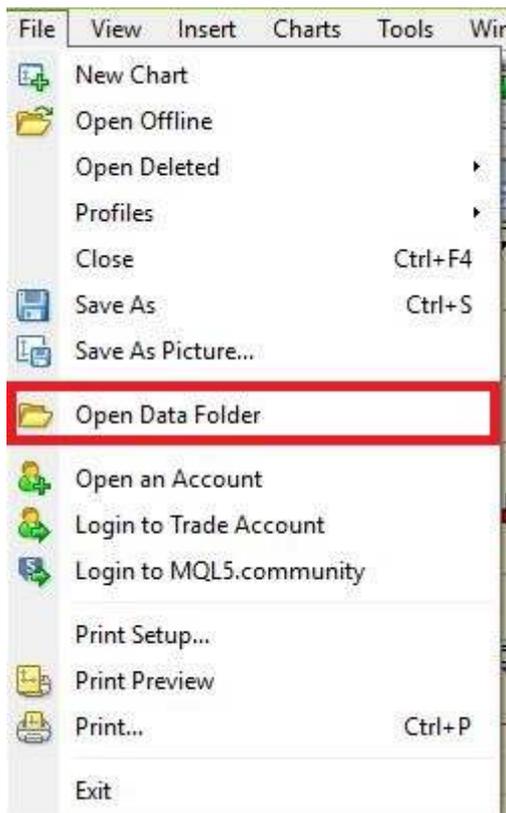
- Sell Exit Condition 1
- Sell Exit Condition 2
- Sell Exit Condition 3
- Sell Exit Condition 4
- Sell Exit Condition 5

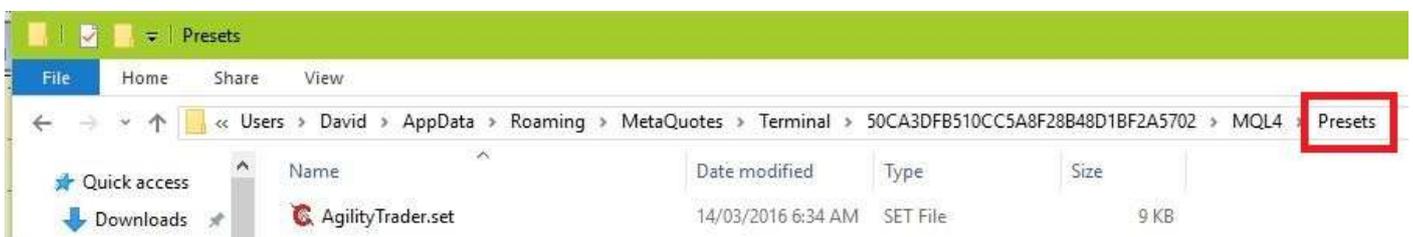
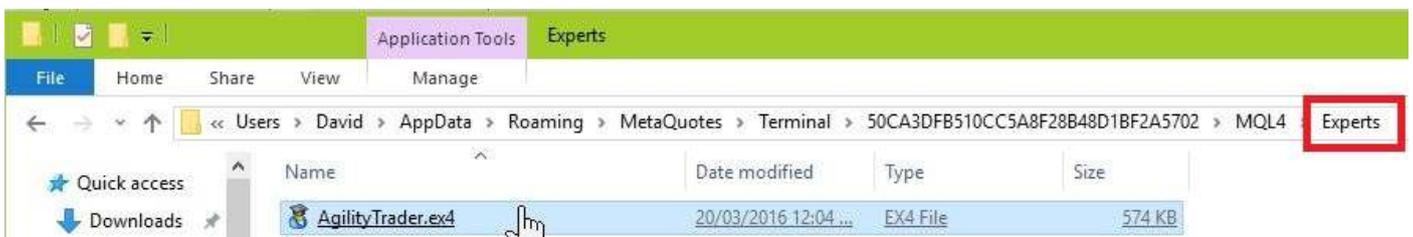
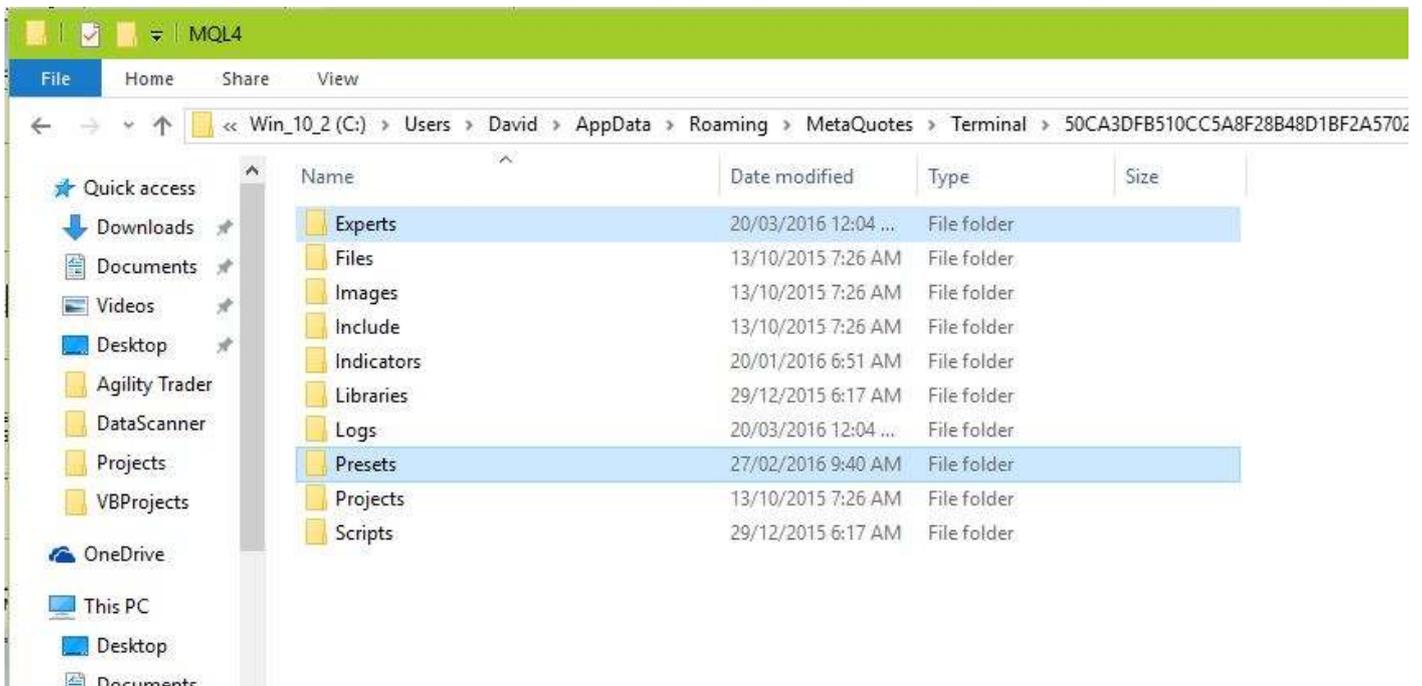
INSTALLATION

Unzip the contents of the zip file.

- Copy the Agility Trader.ex4 to the **Experts sub directory** of your MT4 installation (under MQL4)
- Copy the example .set files to the **Presets sub directory** (under MQL4)
- Copy Agility Trader.pdf (the help file) to **your Documents directory**
- Copy Agility Trader.exe to your **Desktop directory** (or create a shortcut to the download position)
You may need Dot Net Framework 3.5 from Microsoft with earlier versions of Windows

The best way to place the ex4 and set files is to use the clipboard and paste these files in the relevant directory by **navigating from the Open Data Folder within MT4** as these directories are normally hidden in your file system (unless you have enabled the display of hidden files)

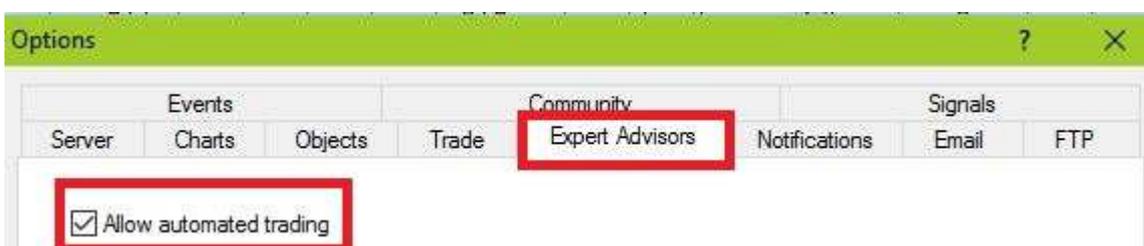




DO NOT PLACE THE .EX4 OR .SET FILES IN THE \PROGRAM FILES or \PROGRAM FILES (x86) DIRECTORIES

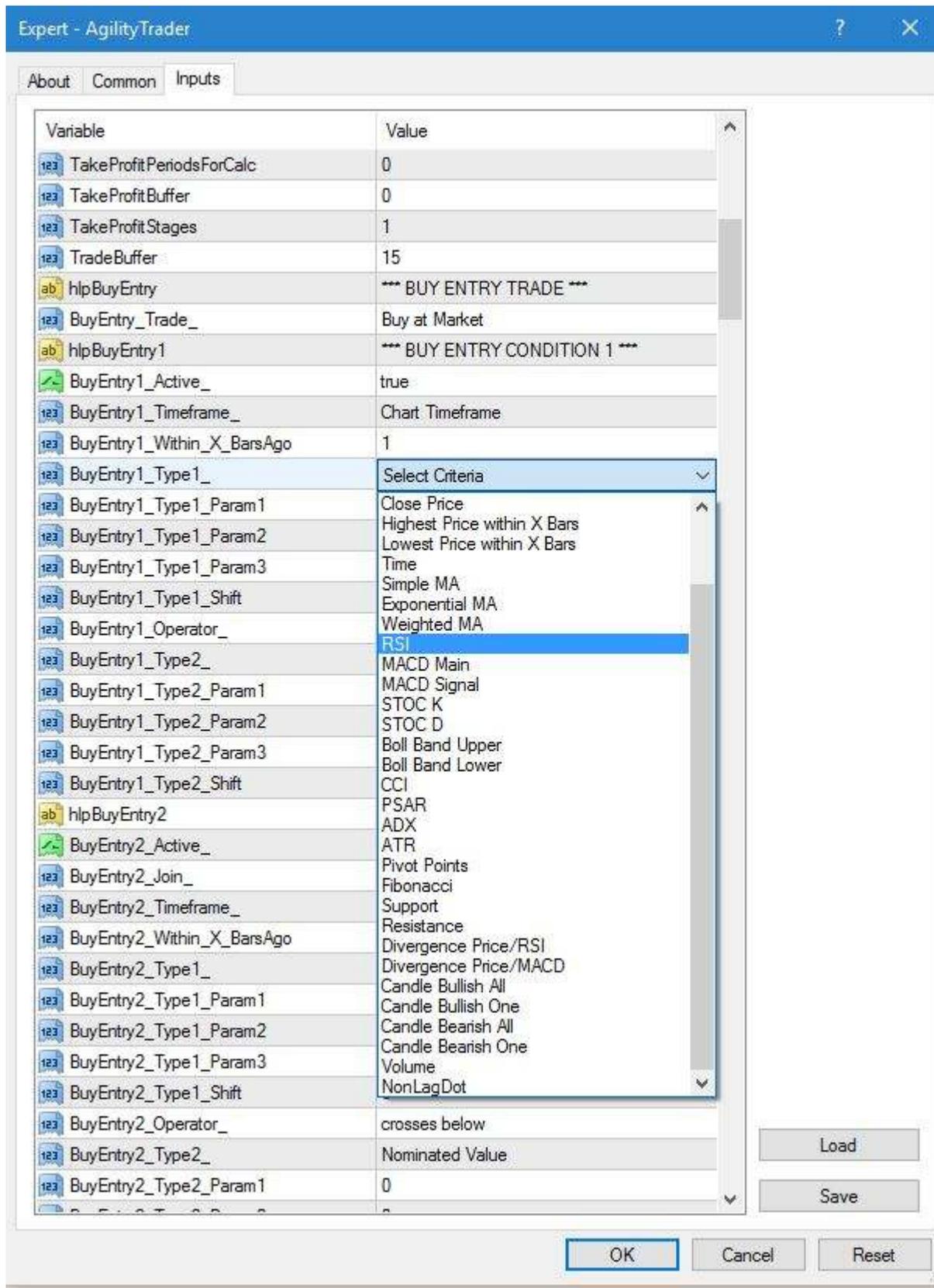
After installation is completed, MT4 will need to be restarted and to run the expert advisor, it will need to be dragged from the Terminal, Expert Advisors area onto any chart.

Ensure you have the following settings enabled from the Tools, Options window



The following screen shows the Inputs Tab on the window which appears when you drag the Expert Advisor onto a chart - **all inputs are available from the MT4 EA input parameters window.**

Double Click any Variable ending with an underscore (“_”) to display available choices



Note the Reset Button on the Bottom Right to reset all settings to their default values.

No conditions are enabled by default. The Load and Save buttons are available for recorded conditions. **EASIER INPUT IS ACHIEVED BY USING THE COMPANION PROGRAM** below. An evaluation is included.

Agility Trader

Agility Trader - Inputs

MANAGEMENT BUY ENTRY BUY EXIT SELL ENTRY SELL EXIT READ/WRITE INPUTS

General Stop Loss Take Profit

Magic No. Show Input Panel on Chart
 Yes No

Message

Trading Mode
 Auto Advisory Only Discretionary Trading

Alert Mode
 No Alert Beep On Screen Message Email or Text Message

Base Currency
 USD EUR GBP AUD CAD NZD CHF JPY

Basket Inclusion
 Yes No Basket Stop Loss Level Basket Take Profit Level

Lot Size Basis
 Fixed Lots Based on Equity Based on Equity and Stop Loss Equity Percentage .or. Fixed Lot Size

Maximum Slippage Pips Straddle Trade Buffer Pips Duration of Pending Order Bars

Wager Increase Multiple HINT - this is an option to increase wagers on successive losses subject to a preset limit is 20% of Equity
The default is 1 - that is no increase, for example - a setting of 1.5 will increase subsequent wagers by 50%

Custom Indicator1 Num. Posns. Parameter1 Posn. Parameter2 Posn. Parameter3 Posn. Maximum Bars

Custom Indicator2 Num. Posns. Parameter1 Posn. Parameter2 Posn. Parameter3 Posn. Maximum Bars

Agility Trader

Agility Trader - Inputs

MANAGEMENT BUY ENTRY BUY EXIT SELL ENTRY SELL EXIT READ/WRITE INPUTS

General Stop Loss Take Profit

Stop Loss Basis
 Nominated Value
 Average True Range Support Level Resistance Level Fibonacci Level Pivot Level
 Highest Price Lowest Price Open Price High Price Low Price Close Price

Nominated Value

Bar(s) for Calculation

Stop Loss Buffer

Trailing Stop Loss
 Yes No Update Stop Loss every Pips of Profit Movement

Set Stop Loss to break even when Pips in Profit

Decrease Stop Loss Value by % at each Step

Agility Trader

Agility Trader - Inputs

MANAGEMENT BUY ENTRY BUY EXIT SELL ENTRY SELL EXIT READ/WRITE INPUTS

General Stop Loss Take Profit

Take Profit Basis

Nominated Value

Average True Range Support Level Resistance Level Fibonacci Level Pivot Level

Highest Price Lowest Price Open Price High Price Low Price Close Price

Nominated Value

Bar(s) for Calculation

Take Profit Buffer

Take Profit Stages HINT - this is an option to progressively set Take Profit. If left at 1, there is no staged profit taking. If the stages were set to 4, the wager would split into 4 parts and each part handled as follows 1/4 at 25% of Take Profit level, 1/4 at 50% , 1/4 at 75%, and the last 1/4 at full Take Profit level

Agility Trader

Agility Trader - Inputs

MANAGEMENT BUY ENTRY BUY EXIT SELL ENTRY SELL EXIT READ/WRITE INPUTS

OrderType

Market Buy Limit Buy Stop Buy Straddle

Condition1 Condition 2 Condition3 Condition4 Condition5

Active

Yes No

Within X Bars Ago

Timeframe

Chart 1 min 5 min 15 min 30 min 60 min 240 min 1440 min 43200 min

Type 1

Open High Low Close Highest Lowest Time SMA EMA WMA RSI MACD main MACD signal

Stoc K Stoc D BB Upp BB Low CCI PSAR ADX ATR Pivots Fibs Support Resistance Divergence RS

Divergence MACD Candle Bullish All Candle Bullish Sgl Candle Bearish All Candle Bearish Sgl Volume Non Lag Dot Spare

Parameter1 Parameter 2 Parameter 3 Shift

Comparison

Greater Than Less Than Crosses Above Crosses Below Equal to Not Equal to

Type 2

Nominated value

Open High Low Close Highest Lowest Time SMA EMA WMA RSI MACD main MACD signal

Stoc K Stoc D BB Upp BB Low CCI PSAR ADX ATR Pivots Fibs Support Resistance Divergence RS

Divergence MACD Canbdl Bullish All Candle Bullish Sgl Candle Bearish All Candle Bearish Sgl Volume NonLagDot Spare

Parameter1 Parameter 2 Parameter 3 Shift

Agility Trader

Agility Trader - Inputs

MANAGEMENT BUY ENTRY BUY EXIT SELL ENTRY SELL EXIT READ/WRITE INPUTS

OrderType
 Market Buy Limit Buy Stop Buy Straddle

Condition1 Condition2 Condition3 Condition4 Condition5

Active
 Yes No

Join
 And Or Exclude And (Or (And) Or)

Within X Bars Ago

Timeframe
 Chart 1 min 5 min 15 min 30 min 60 min 240 min 1440 min 43200 min

Type 1
 Open High Low Close Highest Lowest Time SMA EMA WMA RSI MACD main MACD signal
 Stoc K Stoc D BB Upp BB Low CCI PSAR ADX ATR Pivots Fibs Support Resistance Divergence RS
 Divergence MACD Candle Bullish All Candle Bullish Sgl Candle Bearish All Candle Bearish Sgl Volume NonLagDot Spare

Parameter1 Parameter 2 Parameter 3 Shift

Comparison
 Greater Than Less Than Crosses Above Crosses Below Equal to Not Equal to

Type 2
 Nominated value
 Open High Low Close Highest Lowest Time SMA EMA WMA RSI MACD main MACD signal
 Stoc K Stoc D BB Upp BB Low CCI PSAR ADX ATR Pivots Fibs Support Resistance Divergence RS
 Divergence MACD Candle Bullish All Candle Bullish Sgl Candle Bearish All Candle Bearish Sgl Volume NonLagDot Spare

Parameter1 Parameter 2 Parameter 3 Shift

Agility Trader

Agility Trader - Inputs

MANAGEMENT BUY ENTRY BUY EXIT SELL ENTRY SELL EXIT READ/WRITE INPUTS

OrderType
 Market Sell Limit Sell Stop Sell Straddle

Condition1 Condition2 Condition3 Condition4 Condition5

Active
 Yes No

Within X Bars Ago

Timeframe
 Chart 1 min 5 min 15 min 30 min 60 min 240 min 1440 min 43200 min

Type 1
 Open High Low Close Highest Lowest Time SMA EMA WMA RSI MACD main MACD signal
 Stoc K Stoc D BB Upp BB Low CCI PSAR ADX ATR Pivots Fibs Support Resistance Divergence RS
 Divergence MACD Candle Bullish All Candle Bullish Sgl Candle Bearish All Candle Bearish Sgl Volume NonLagDot Spare

Parameter1 Parameter 2 Parameter 3 Shift

Comparison
 Greater Than Less Than Crosses Above Crosses Below Equal to Not Equal to

Type 2
 Nominated value
 Open High Low Close Highest Lowest Time SMA EMA WMA RSI MACD main MACD signal
 Stoc K Stoc D BB Upp BB Low CCI PSAR ADX ATR Pivots Fibs Support Resistance Divergence RS
 Divergence MACD Candle Bullish All Candle Bullish Sgl Candle Bearish All Candle Bearish Sgl Volume NonLagDot Spare

Parameter1 Parameter 2 Parameter 3 Shift

Agility Trader

Agility Trader - Inputs

MANAGEMENT BUY ENTRY BUY EXIT SELL ENTRY SELL EXIT READ/WRITE INPUTS

SetFile Format Logical Format

```

Magic Number = 300000002, Message = Agility Trader
Automatic Trading No Alerts Base Currency AUD
No Basket Inclusion, BasketTakeProfit = 0, BasketStopLoss = 0
Lot Size based on % of Equity, Lot Size = 0.0, Percentage of Equity = 2.0%
MaxSlippage = 2, Pending Order Duration = 10
Wager Increase Multiple = 1.0
Stop Loss Type : Nominated Value = 50
Stop Loss Periods for Calculation = 0, Stop Loss Buffer = 0, Use Trailing Stop Loss , Stop Loss Step Size = 5
Stop Loss Breakeven Pips = 30, Stop Loss Decrease Percentage = 0
Take Profit Type : Nominated Value = e=50
Take Profit Periods for Calculation = 0, Take Profit Buffer = 0
Number of Take Profit Stages = 1
*** BUY ENTRY TRADE ***
*** Buy Entry CONDITION 1 ***
Within 1 Bar(s) RSI 14 Crosses Above Nominated value 30
*** Buy Entry CONDITION 2 ***
And Within 1 Bar(s) Close Greater Than Close Shift 1
*** SELL ENTRY TRADE ***
*** Sell Entry CONDITION 1 ***
Within 1 Bar(s) RSI 14 Crosses Below Nominated value 70
  
```

Write Set File

Read Set File

Print Window

Clear all Inputs

Agility Trader

Agility Trader - Inputs

MANAGEMENT BUY ENTRY BUY EXIT SELL ENTRY SELL EXIT READ/WRITE INPUTS

SetFile Format Logical Format

```

MAGICMA=300000002
Message=Agility Trader
ShowInputPanelOnChart=true
Note=Doubleclick Inputs ending with '_'
TradingMode_ =0
AlertMode_ =0
hlpMM=*** MONEY MANAGEMENT ***
BaseCurrency_ =3
BasketInclusion_ =false
BasketTakeProfitLevel=0
BasketStopLossLevel=0
LotSizeBasis_ =1
FixedLotSize=0.0
EquityPercentage=2.0
MaxSlippage=2
WagerIncreaseMultiple=1.0
PendingOrderDurationBars=10
StopLossType_ =0
StopLossNominatedValue=50
StopLossPeriodsForCalc=0
StopLossBuffer=0
StopLossTrail_ =1
StopLossStepSize=5
StopLossBreakEvenPips=30
StopLossDecreasePercent=0
TakeProfitType_ =0
TakeProfitNominatedValue=50
TakeProfitPeriodsForCalc=0
TakeProfitBuffer=0
TakeProfitStages=1
TradeBuffer=15
hlpBuyEntry=*** BUY ENTRY TRADE ***
BuyEntry_Trade_ =0
hlpBuyEntry1=*** Buy Entry CONDITION 1 ***
BuyEntry1 Active =true
BuyEntry1_Timeframe_ =0
BuyEntry1_Within_X_BarsAgo=1
BuyEntry1_Type1_ =11
BuyEntry1_Type1_Param1=14
BuyEntry1_Type1_Param2=0
BuyEntry1_Type1_Param3=0
BuyEntry1_Type1_Shift=0
  
```

Write Set File

Read Set File

Print Window

Clear all Inputs

Active Conditions are highlighted

The following discussion covers each of the inputs –

Magic Number

Each chart requires its own individual Magic Number because that number identifies trades associated with that chart. **It is most important that each chart has a different Magic Number.** Default value is 300000000 and it suggested that the numbering system relates to the currency pair and timeframe. For example 300100060 AUDUSD 60min. 300200015 EURUSD 15min.

Comment

This nominated text will appear in the Comments section of the Trade Log. Default is “Agility Trader”

Show Input Panel on Chart

This option allows for display of your active inputs on the chart to which the EA is attached



Trading Mode

3 choices

- Automatic Trading
- Advisory only
- Discretionary Trading

The EA does not necessarily trade automatically. You have the option to just be advised, or make a discretionary choice to automatically enter the trade.

AlertMode

This is the method that you will set to be advised of any potential trades. Options are

- No advice
- On screen
- Email or Text Message

Base Currency

This is the currency that you trade with your Broker

Basket Inclusion

This option provides for Stop Loss or Take Profit to be based on a nominated realized equity value. At this point all trades using the Agility Trade EA will close and no further trading will take place until the following levels are adjusted.

Basket Stop Loss Level

This is the Equity Value at which all trading will cease if the above option is enabled

Basket Take Profit Level

As above

Lot Size Basis

Options are

- Fixed lot Size
- Lot Size based on % of Equity
(Lot Size = Equity * Equity Percentage / Account Leverage)
- Lot Size based on % of Equity and Stop Loss Value
(Lot Size = Equity * Equity Percentage / Account Leverage / Stop Loss)

Equity Percentage

The percentage of equity that will be allocated for each trade. 2% is generally regarded as sound money management.

Or Fixed Lot Size

A fixed Lot Size value. May have 2 decimal points

Maximum Slippage

The maximum allowable value in pips that the actual trade price can vary from the requested price.

A pip is .0001 normally (JPY pairs .01)

Straddle Trade Buffer

The variance in pips from the current price at which simultaneous Limit Buy and Limit sells are placed

Duration of Pending Order

After this number of bars any pending trades will be cancelled if not automatically cancelled by opening of trades

NOTES ON CUSTOM INDICATORS

An allowance for 2 custom indicators is provided. The custom indicators must be compiled and the ex4 must exist in the indicators subdirectory under \MQL4. Each Custom indicator has a number of inputs. Using nonlagdot as an example which is set as Custom1 name, the number of inputs is 7. The input which affects the calculation is the number of periods which is Position 2 in the inputs. That is the only parameter that concerns the calculation. If there were 2 other parameter affecting the calculation, the positions of those parameters must be nominated. The last entry concerns the limit of same direction bars for a signal to be taken into account. Note than some indicators may only give 2 values ie. A Buy or Sell Signal. If that is the case, set the nominated value to either 1 or 2 for comparison purposes. An example of these inputs in use is in the NonLagDot sample set file. **These inputs are at the end of the inputs for the Expert Advisor.**

An addition has been added to specify the required Buffer Number to be calculated. This will cater for Custom Indicated that draw more than one line. Examine the source code to read the SetBufferIndex designation.

Wager Increase Multiple

This pre-set is 1. No automatic increase

The option exists to automatically increase wager on consecutive losing trades. A value of 2.0 will double the next consecutive losing wager. 1.5 will increase the wager by 50%. 2.0 is the suggested maximum. A safety feature is built in to automatically limit the maximum wager at 20% of equity. At that point after a subsequent consecutive loss, the next wager will revert to the nominated % risk. If any increased wager results in a win the subsequent wager will return to the base level.

Stop Loss Basis

The available choices are

- Nominated Value
- Average True Range
- Projected Support Level
- Projected Resistance Level
- Fibonacci Level
- Pivot Level
- Highest Price within X Bars
- Lowest Price with in X Bars
- Open Price
- High Price
- Low Price
- Close Price

To nominate a particular value use Nominated Value, the other choices are based on the value of the associated parameters below.

Nominated Value

Used for a fixed (Nominated) Stop Loss value

Bars for Calculation

The number of bars back from the last closed bar that the calculation is determined. This setting can also be used to nominate a particular parameter to use - examples 62, 50 or 38 for Fib, 4 for MT4 offset for Pivots. Support and Resistance levels use this setting for calculations. A setting of 100 is suggested.

Stop Loss Buffer

A buffer can be applied to the value derived above to allow for a little leeway from the level required. A positive value errs of the safe side a negative value allows for some transgression.

Trailing Stop Loss

Allows for the Stop Loss to be automatically adjusted as Profit increases to maintain a fixed gap (the Stop Loss value in pips) from the maximum profit level

Update Stop Loss Frequency

This is the interval that the trail will be updated. A setting of 5 will allow the Stop Loss value to be adjusted every 5 pips positive movement.

Set Stop Loss to Breakeven

The point at which the Stop Loss will be moved to prevent any loss on the trade. A setting of 30 for example will move the Stop Loss to the purchase price when the trade is ahead by 30 pips. (1 pip of profit is allowed for in actual fact)

Decrease Stop Loss Percentage

If set at any value greater than zero, the Stop Loss is automatically decreased at each step on the trail by this percentage.

Take Profit Basis

The available choices are

- Nominated Value
- Average True Range
- Projected Support Level
- Projected Resistance Level
- Fibonacci Level
- Pivot Level
- Highest Price within X Bars
- Lowest Price with in X Bars
- Open Price
- High Price
- Low Price
- Close Price

To nominate a particular value use Nominated Value, the other choices are based on the value of the associated parameters below.

Nominated Value

Used for a fixed (Nominated) Take Profit value

Bars for Calculation

The number of bars back from the last closed bar that the calculation is determined. This setting can also be used to nominate a particular parameter to use - examples 62, 50 or 38 for Fib, 4 for MT4 offset for Pivots. Support and Resistance levels automatically use a setting of 100.

Take Profit Buffer

A buffer can be applied to the value derived above to allow for a little leeway from the level required. A positive value errs on the safe side a negative value allows for some transgression.

Take Profit Stages

The default value is 1. That is the profit is completely taken when the Take profit level is reached.

A setting of 4 will create the following scenario.

- At 25% of Take Profit pips, the wager will be reduced by 25% of original wager
- At 50% of Take Profit pips, the wager will be reduced by a further 25% of original wager
- At 75% of Take Profit pips, the wager will be reduced by a further 25% of original wager
- The remaining 25% will be taken at Take Profit pips.

NOTES REGARDING ORDER PARAMETERS IN GENERAL

4 types or orders are discussed.

- Buy Entry
- Buy Exit
- Sell Entry
- Sell Exit

The Exit orders are not required if just trading on Take Profit and Stop Loss.

For reversal type trading, the exit orders will need to be set. For example - trading on Buy signals for cross up occurrences and Sell signals for cross down occurrences.

5 conditions can be specified for each type of order. Each condition is joined to the previous condition (no join obviously on the 1st condition)

- And
- Or
- Exclude
- And (
- Or (
- And)
- Or)

The joins with the brackets “(“ and “)” provide for sample scenarios such as -

If 1 and 2 are true but (3 or 4 are not true) then trade

Within each condition, the parameters are satisfied by a reference value matching a nominated value through the join.

The joins are –

- Greater than
- Less than
- Crosses above
- Crosses below
- Equal to
- Not equal to

All Conditions are pre-set to false (Don't forget the “Reset” button to restore default values)

A simple Example

Buy Entry Order

Use Buy Condition1 = true

BuyEntry1_Timeframe_ = 0 (default), **Note: express any other required time frame in minutes**

BuyEntry1_Type1_ = RSI

BuyEntry1_Type1_Param1 = 14

BuyEntry1_Join_ = crosses above

BuyEntry1_Type2_ = Nominated value

BuyEntry1_Type2_Param1 = 30

Sell Entry Order

Use Sell Condition1 = true

SellEntry1_Timeframe_ = 0 (default)

SellEntry1_Type1_ = RSI

SellEntry1_Type1_Param1 = 14

SellEntry1_Join_ = crosses below

SellEntry1_Type2_ = Nominated value

SellEntry1_Type2_Param1 = 70

In this scenario it is assumed that both orders are covered by Stop Loss and Take Profit.

If trading on signal reversals, the Buy Exit would have to be the same as the Sell Entry and the Sell Exit would have to be same as the Buy Entry. Programmatically the Exit signals are evaluated before the Entry signals.

ORDER SIGNALS

The timeframe does not necessarily need to be the current chart timeframe.

All settings default to the close of the previous bar.

Each signal has an input for the number of bars of lookback for the signal

and can have up to 3 parameters such as

MACD 12,26,9

Additionally, shift value can be nominated to look at the value of a signal at a shift value rather than the most previous bar. A shift value of 1 would look at the second last bar.

The difference between the Lookback and Shift is that by default the previous bar will only be considered for the signal whereas when evaluating on the lookback, the signal will relate to the shift from the current lookback bar.

Conditions 2, 3, 4 & 5 also specify a join condition

- And
- Or
- Exclude
- And (
- Or (
- And)
- Or)

Open Price, High Price, Low Price & Close Price

Whilst these prices do not represent indicators used in the decision to open a trade, they do represent significant considerations in cross referencing and filtering trades. For instance, trades may be predicated on a particular past price being above or below a moving average, being above or below support and resistance level or not too close to Fibonacci or Pivot levels. The Shift value after the parameters settings represents the ability to reference a previous bar rather than the last bar. If using for Stop Loss or Take profit calculations, the Shift value is nominated in the StopLossBuffer or TakeProfitBuffer.

Highest Price within x bars

To use this setting, use the WithinXBarsAgo as the setting for the calculation (PeriodsForCalc in Stop Loss and Take Profit calculations)

Lowest Price within x bars

As above

Time

When using Time, Param1 represents Day of Week, 1 = Monday, Param2 represents Hour of Day (MT4 time) and Param3 represents minute of the hour.

Simple MA

Param1 represents the SMA value. To use the cross of a SMA as a signal, use the “crosses above” or “crosses below” as the Operator and enter the second SMA as the Type2

Exponential MA

As above

Weighted MA

As above

RSI

Param1 represents the RSI Periods. When looking for crosses of levels, use RSI crosses above Nominated value of 30 (or whatever you require) for Buy signals and crosses below Nominated Value for Sell signals.

MACD Main

Param1 represents the Fast MA, Param2 represents the Slow MA and Param3 represents the smoothing period. This value represents the main MACD line

MACD Signal

Param1 represents the Fast MA, Param2 represents the Slow MA and Param3 represents the smoothing period. This value represents the signal MACD line. To check for a signal cross of the Main, Type1 would have the MACD main and Type2 would have the MACD signal and the comparison would be “crosses above” or “crosses below”

STOCK

The considerations are similar to the MACD Main

STOCK D

The considerations are similar to the MACD signal

Boll Band Upper

Param1 represents the averaging period, Param2 represents the standard deviation

Boll Band Lower

As above

CCI

Param1 represents the averaging period. The Operator would normally be “crosses above” or “crosses below” and Type2 would be Nominated value of 100 or -100

PSAR

Param1 represents the step (normally .02) and Param2 represents the maximum step (normally .2)

NOTE – Because the input only allows for whole numbers, nominate the numbers * 100.

That is Param1 = 2 and Param2 = 20

ADX

Param1 represents the averaging period, Param2 represents the applied price (normally 0 - Close but 1 – Open, 2- High, 3- Low, 4- Median,5- Typical, 6- Weighted)

ATR

Param1 represents the averaging period.

If using ATR to determine Stop Loss or Take Profit, the multiple is nominated in the Nominated Value and the Averaging Period is nominated in the PeriodsForCalc input.

NOTE – Because the input only allows for whole numbers, nominate the multiple as * 10. That is 46 = 4.6

Pivot Points

Param1 represents the MT4 time shift in hours for the beginning of day calculation. For example, if your MT4 time is GMT + 3 and you were working on Pivots based on the end of the New York trading day when there was daylight saving in New York, use a shift value of -7. To nominate the particular Pivot Point, set Param2 to the following Values

- Pivot Point = 0
- S1 = 1
- S2 = 2
- S3 = 3
- R1 = 4
- R2 = 5
- R3 = 6

Use Param3 to nominate the required number of pips as buffer from the required level.

Fibonacci

The calculation will be made on the highest and lowest values using the Type2_Param1 value. Suggest using the higher timeframes such as 1440min (daily). Set Type2_Param2 to the following values to represent the different fib levels.

- 0
- 38
- 50
- 62
- 100
- 162

Use Param2 to nominate the required number of pips as buffer from the required level.

Support

This level is calculated on a lookback using the XBarsAgo value and will compute the anticipated support level at the close of the last bar. Use Type2_Param1 to specify the buffer required from the support level.

Resistance

This level is calculated on a lookback using the XBarsAgo value and will compute the anticipated resistance level at the close of the last bar. Use Type2_Param1 to specify the buffer required from the resistance level.

It is now possible to automatically trade support and resistance channels by setting Entry and Exit conditions to recognise the approach of these channels. See the example set files for further information.

Divergence Price / RSI

The lookback is taken from XBarsAgo value and this will enable checking for the existence of divergence at the close of the Last Bar. Use Param1 to specify the RSI Periods.

If divergence does exist (rising RSI and falling Price or vice versa) a Buy or Sell signal will be given. Use Divergence = Nominated Value of 1 (Type 2_Param1) for Buy signals and Divergence = Nominated Value of 2 (Type 2_Param1) for Sell signals

Divergence Price /MACD

The lookback is taken from XBarsAgo and this will enable checking for the existence of divergence at the close of the Last Bar. Use Params1, 2, and 3 To specify the MACD settings for example. Param1 = 12, param2 = 26 and Param3 = 9.

If divergence does exist (rising MACD Main and falling Price or vice versa) a Buy or Sell signal will be given. Use Divergence = Nominated Value of 1 (Type 2_Param1) for Buy signals and Divergence = 2 (Type 2_Param1) for Sell signals

Candle Bullish All

By using all bullish Candle formations, the existence of one bullish candle signal will give a Buy signal. Use CandleBullishAll = Nominated Value of 1 (Type 2_Param1) for Buy signals.

Candle Bullish One

By using a nominated bullish Candle formation, the existence of that bullish candle signal will give a Buy signal. Use CandleBullishSgl = Nominated Value of 1 (Type 2_Param1) for Buy signals and nominate in Type1_Param1 the signal required.

1. Bullish Engulfing
2. Bullish Piercing Line
3. Bullish Kicker
4. Bullish Harami
5. Bullish Abandoned Baby
6. Bullish Morning Star Doji
7. Bullish Inverted Hammer
8. Bullish Three White Soldiers

Candle Bearish All

By using all bearish Candle formations, the existence of one bearish candle signal will give a Sell signal. Use CandleBearishAll = Nominated Value of 1 (Type 2_Param1) for Sell signals.

Candle Bearish One

By using a nominated bearish Candle formation, the existence of that bearish candle signal will give a Sell signal. . Use CandleBearishSgl = Nominated Value of 1 (Type 2_Param1) for Sell signals and nominate in Type1_Param1 the following values for the relevant signal required.

1. Bearish Engulfing
2. Bearish Dark Cloud Cover
3. Bearish Kicker
4. Bearish Harami
5. Bearish Abandoned Baby
6. Bearish Evening Star Doji
7. Bearish Shooting Star
8. Bearish Three Black Crows

Volume

Rising volume will give a trade confirmation, falling volume will negate a trade signal. Use Volume = Nominated Value of 1 (Type 2_Param1) for a trade signal.

PLEASE REFER TO THE EXAMPLE SET FILES FOR A FULLER APPRECIATION OF THE IMPLEMENTATION