

ARF

## Trading Indicator Robot Notes

### Settings and Examples

Assuming contract (/GC or /MGC or /CL or /MCL) and time frame of candles in this case range bars set at 10R will be controlled by the chart and don't need to be set in ARF?

ARF will have two modes: Fast Mode and Normal Mode

Fast mode is determined by the angle of the moving average of the indicator (Grey Line) - we will have to determine an angle/slope to trigger fast mode (i.e. greater than 50 degrees). Once triggered entry is immediate (market order) and stoploss is set at fast mode value input of ticks and take profit is 4R. Break-even + fees is triggered after a move of fast mode value input of ticks and if trading multiple contracts, 25% of contracts are taken off. 75% of total contracts traded are taken off at 4R and 25% of contracts traded are left as runners. Stop Loss trails to 1R after price reaches 2R. Exit is at stop loss, or 5 minutes prior to market close (unless closing bell box is checked), or a grey bar (unless opposite close is checked).

### Normal Mode

Entry is with a limit order or stop on a retracement of price to within 5 ticks of the grey line after the dot is painted on grey line. Stop Loss is set at normal mode value of ticks Break even triggers after normal mode value of ticks and if trading multiple contracts 25% of contracts are exited. Target for 75% of contracts 2.5R and break-even moves to 1R after price reaches 2R. Trade closes if stop loss hit or 5 mins before close of market (unless closing bell box is checked) or when opposite signal paints or on grey bar depending on settings

The Decision tree would be something like signal triggers - slope/angle of line is measured if at (x degrees or greater) then fast mode execution if not then normal mode execution

## Input Fields and Dialogue Box for indicator Settings

Check mark box for each hour ARF is not allowed to trade - if a box is checked ARF cannot trade for that hour. It doesn't automatically close an open position, ARF is just not allowed to open any new positions for any checked hours.

Closing Bell box - if checked ARF is allowed to hold positions into the next trading session. Default mode is that ARF will close all open positions 5 mins before closing bell.

## Dialogue Boxes Needed for inputs

Stop Loss Fast (Enter Tick Value) (example 35)

Normal (Enter Tick Value) (example 25)

Break-Even Trigger Fast (Enter Tick Value) (example 35)

Normal (Enter Tick Value) (example 20)

Exit on Opposite (If checked position is closed only when an opposite color bar paints, otherwise position is closed on grey bar (default mode)).

## Rules:

Entry - Normal Mode with a limit order or stop order when price is within 5 ticks of moving average - When in Fast mode enter immediately

Stop Loss is a Market if Touched Order if not available then a stop order and is set at the value of ticks entered for each mode

Break - even triggers at value of ticks entered, if multiple contracts are being traded one or more is closed to cover commissions and fees, if only one contract then an offset is calculated to cover fees and break-even is placed at the offset price

If price moves to 2R, stop loss moves to 1R

1st Exit is 2.5R in normal mode and 4R in fast mode (75% of position)

Always leave a runner if contract size allows

Final exit is open of a grey price bar unless Exit on Opposite Box is checked then close on the opening of an opposite color bar.

Other Dialogue Boxes needs:

# of Contracts (Enter Value)

Fees (Enter Value of commission and fees per contract) ARF will calculate how many contracts to close at break-even to cover, if only trading one contract, break-even is placed to include this value

Max Loss (Enter Value) if this value is reached ARF stops trading for the day, safeguard - ARF will not work without a value entered here. ARF resets and begins trading the next trading session.

Max Gain (Enter Value) if this box is checked and value entered, ARF stops trading after this amount is reached. (ARF does not exit trade immediately, it only doesn't open a new trade if this value is reached) If not checked ARF will stop trading at 5 mins prior to closing bell unless the closing bell box is checked then positions can be carried into the next trading session. If max gain is reached, ARF resets and begins trading the next trading session

Notes:

Sometimes a buy or sell signal will trigger when already in a trade - just ignore those signals

In Normal Mode, if signal triggers and price does not come within 5 ticks of moving average but price candles turn grey - cancel order and wait for a new signal. In other words if an active limit or stop order has been placed but not filled - cancel order if color of bars turns grey

Options for redundancy? Running from a cloud? Something else?

Here is an example trade:

Inputs:

Chart is Trading /MGC (\$1 per tick) and set on Range Bars (10R)

Normal Mode Stop Loss Value: 25

Fast Mode Stop Loss Value: 35

Normal Mode Break-Even Trigger: 20

Fast Mode Break-Even Trigger: 35

Exit on Opposite: Checked

# of Contracts: 5

Fees: 3

Max Loss: 200

Max Gain: Unchecked

Closing Bell: Unchecked

Hours Not Allowed: 23:00 and 00:00 and 11:00 and 12:00 and 13:00 are checked

A sell signal triggers (ARF determines if allowed to trade (Max Loss Hit, Max Gain Hit, Hour Allowed) (ARF measures angle of moving average, determines normal mode), a short position of 5 contracts is entered once price is within 5 ticks of the moving average (grey line) and a stop loss of 25 ticks. Price moves favorably 20 ticks and the stop loss is moved to break-even and one contract is covered. No offset is needed for the break-even as 1 contract of 20 ticks covers the commission for the 5 contracts traded (5 contracts times Fees value of 3 is \$15, 1 contract of micro-gold closed at 20 ticks is \$20, therefore no offset for fees is needed). Price advances to 2R and break-even is moved to 1R. Price reaches 2.5R and 75% of the remaining contracts are closed. This leaves one runner. So one of three things is going to happen now: 1) the stop loss is hit 2) trade is closed 5 mins before closing bell (because the closing bell check box is unchecked), and 3) If a buy signal triggers, position is closed (because the Exit on Opposite box was checked) and a new position is entered. In this case it is fast market conditions, a market order is executed immediately and a stop loss of 35 ticks is established. Break-even is reached after 35 ticks, and 1 contract is sold. Profit target is 4R. Stop loss is moved to 1R after price reaches 2R. ARF closes trade at 5 mins before closing bell. After start of next session, ARF is ready to begin trading, resets max loss value and max gain value if any, and waits for a signal. ARF enters a buy signal and is stopped out almost immediately (Down \$125). A sell signal triggers but it happens at 23:42, and no trade takes place because this is a no trade time. A buy signal occurs at 9:45 am and ARF enters the market on a fast market condition which has a 35 tick stoploss and the ARF is only allowed to risk \$75 more dollars, so ARF can only trade 2 contracts. This trade closes with a win of 1R or \$75. Another buy signal is triggered on normal mode and ARF has \$150 of risk, 25 ticks means ARF can trade 6 contracts, but the maximum number of contracts allowed is 5, so ARF buys 5 contracts on a limit order when price is within 5 ticks of the moving average with a 25 tick stop loss. The position gets stopped out, Loss of \$125. A sell signal triggers in fast mode, ARF only has \$25 in risk capital and cannot take the trade because the stop loss in fast mode is 35 ticks and this would exceed the risk limit even with one contract. A buy signal triggers in normal mode, and ARF buys 1 contract with a stop loss of 25 ticks. This position gets stopped out almost immediately. Another sell signal triggers but ARF understands that the daily loss limit of \$200 has been reached and stops trading for the day. ARF waits for the next market session to open, resets loss values and gain values and waits for a signal.