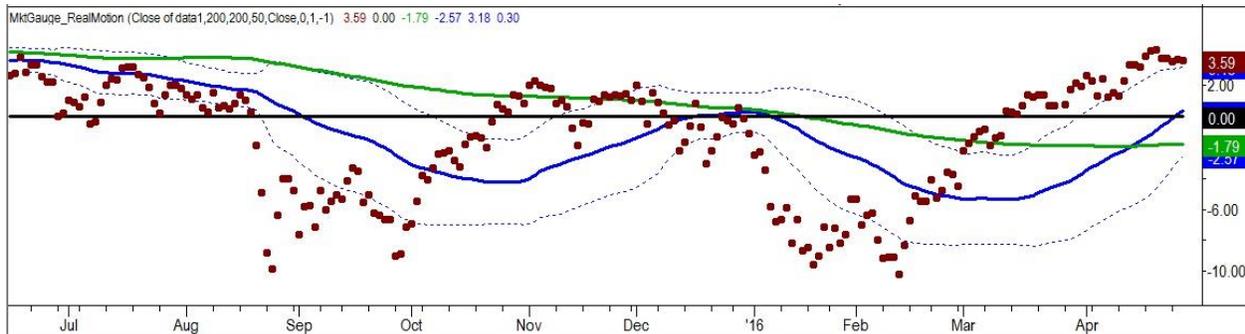




Description and Setup of MarketGauge RealMotion Indicators on Fidelity Active Trader Pro v10.6



MarketGauge supports the RealMotion indicator on a number of platforms. The image above is how the indicator appears on Tradestation. To set up the indicator on the Fidelity Active Trader Pro platform, you will need to follow the steps listed below. The visual appearance and style of the indicator may look different on each platform depending on how it is setup.

Fidelity Active Trader Pro v10.6:

- 1) Set your chart frequency to a minimum of 2 years as the PPO is an exponential indicator in Fidelity's Active Trader Pro.
- 2) Select indicators at top of chart, scroll right and click on PPO (Percentage Price Oscillator) to open in new window below price chart.
- 3) Click on PPO, select Modify.
- 4) Change Period 1 to 1, and Period 2 to 200, change color to Brown, Line Style to dots, and Apply.
- 5) Click on PPO again, select Add Indicator, then click on Simple Moving Average-SMA.

- 6) Click on SMA, select Modify, change Period to 50 and Color to Blue, then Apply.
- 7) Click on PPO once more, select Add Indicator, and click on SMA.
- 8) Click on SMA, select Modify, change Period to 200 and Color to Green, then Apply.
- 9) Click on BB, select Modify, change Period to 50, Standard Deviation to 1, Slide Opacity to 0%, and Line Style to dots, and Apply.
- 10) Click on PPO, select Add Indicator, click on Bollinger Bands -BB.
- 11) You will have to manually add the flat black zero-line by clicking on "Draw" in the upper left corner of the chart, selecting the 8th icon to the right "___" and placing your point on the 0 value of the PPO graph to set a permanent fixed line. You can choose what color to plot the line. Black is not an available option on Fidelity.

If you have additional questions, please contact us via email, chat or phone.

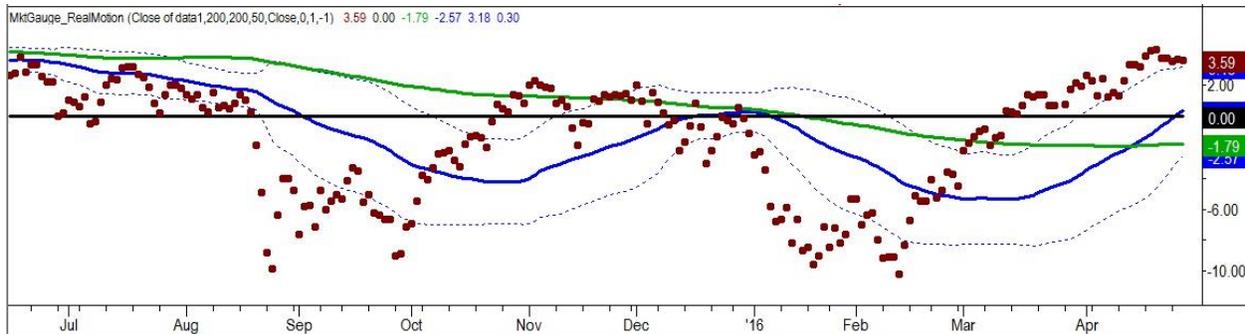
<http://www.marketgauge.com/>

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This section explains the general indicator calculations, settings, and plots. The instructions above should be sufficient to get the indicator working on the Fidelity Active Trader Pro platform. The information below can be used to build the indicator on most trading platforms with customizable code. It has been included here merely for informational purposes.

The Indicator:



The indicator can be applied to price data series for any timeframe (Minutes/hours/days/weeks/months). It should be plotted in its own separate draw space (typically below the price data series). All moving averages are simple moving averages.

Inputs:

Primary_Average = set to default of 200

RealMotionAverageSlow = set to default of 200

RealMotionAverageFast = set to default of 50

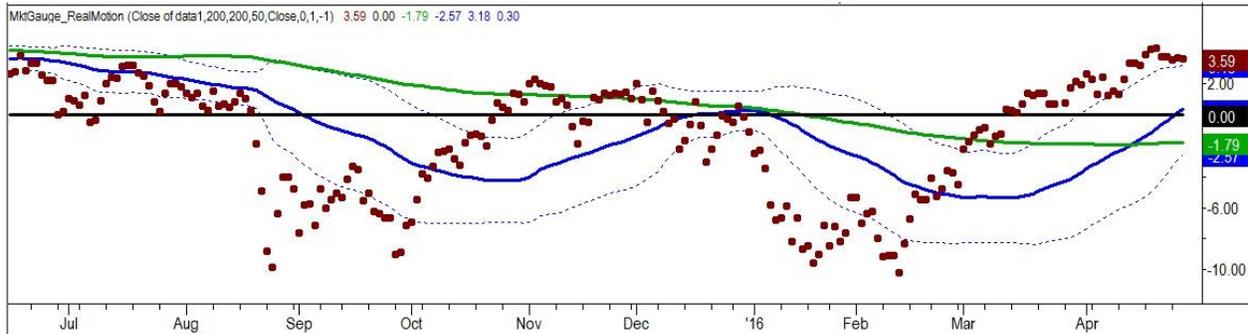
NumDevsUp = set to default of 1 (upper Bollinger band)

NumDevsDn = set to default of -1 (lower Bollinger Band)

Variables:

RealMotion, SlowRealMotion , FastRealMotion, PrimaryAveragePlot, fSDev, fLowerBand, fUpperBand

Calculation and Plot Display:



The **black zero line** is simply a permanent fixed line at zero value.

The **brown dots** are created from the “RealMotion” variable. They are calculated through two steps:

PrimaryAveragePlot = Average (of price data series, with length “Primary_Average”)

The default is: PrimaryAveragePlot = Average (200 days of closing prices)

RealMotion = ((price data series / PrimaryAveragePlot) – 1) * 100)

The default is:

RealMotion = ((closing price / 200-day moving average) – 1) * 100)

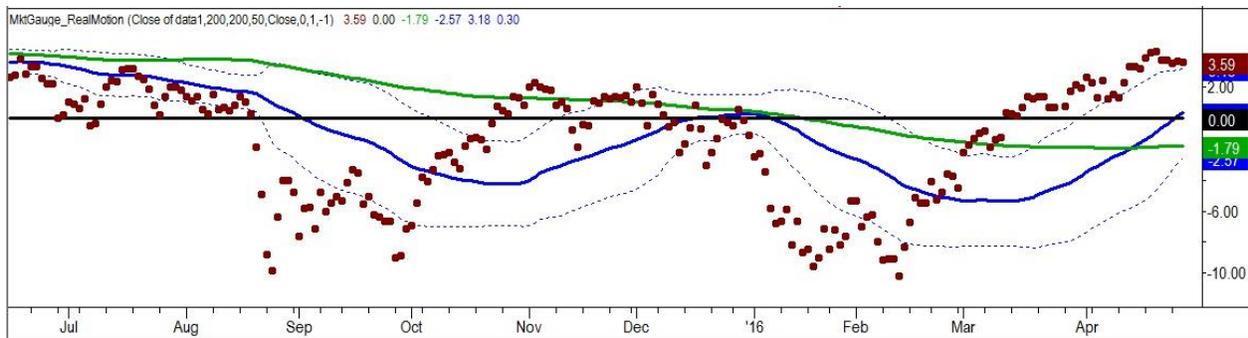
The **brown dots** are a dot plot of the individual values of the RealMotion variable. Essentially, they divide the equity price by the moving average of that price (here 200 period). We then subtract one and multiply that value by 100. This centers the indicator at zero (when price = moving average then RealMotion will equal zero). Furthermore, by multiplying by 100 we make it so that when RealMotion = 5.0 we can say that the price is 5% greater than the reference moving average.

The **green line** is created by the SlowRealMotion variable. Here is how it is calculated:

SlowRealMotion = Average of (RealMotion , with a length of RealMotionAverageSlow)

The default is:

SlowRealMotion = Average of (RealMotion over 200 periods)



The **blue line** is created by the FastRealMotion variable. Here is how it is calculated:

FastRealMotion = Average of (RealMotion , with a length of RealMotionAverageFast)

The default is:

FastRealMotion = Average of (RealMotion over 50 periods)

Finally, we create **Bollinger bands** around the blue line. Here is typically how a Bollinger band is created:

fSDev = the Standard Deviation of (RealMotion as the data source, RealMotionAverageFast as the length of data to use).

The default is:

fSDev = the Standard Deviation of (RealMotion, 50).

To create upper band for the fast blue line use:

fUpperBand = (FastRealMotion + NumDevsUp * fSDEV)

To create lower band for the fast blue line use:

fLowerBand = (FastRealMotion - NumDevsDn * fSDEV)

Depending on your trading platform, the steps required to recreate and plot these calculations will vary.

The final display workspace could look similar to this:



We have a price data series in the upper section show three moving averages:
Green = 200 day/period Blue =50 day/period Magenta = 10 day/period

In addition we plotted **Bollinger Bands** around the price data (in red) using standard 20 length and 2 standard deviations above and below.

In the lower window we plotted the MarketGauge RealMotion indicator with the default settings described in this document.