

Advance-Dcline Volume Percent

 stockcharts.com/school/doku.php

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Introduction

Advance-Dcline Volume Percent is a breadth indicator that measures the percentage of Net Advancing Volume. After the market close, StockCharts.com calculates this indicator for the nine sector SPDRs and several indexes. AD Volume Percent forms the basis for a breadth oscillator or the AD Volume Line. These indicators can then complement the analysis of the underlying security. For example, the AD Volume Line based on AD Volume Percent for the Consumer Discretionary SPDR (XLY) would complement the analysis of XLY. This article will explain how to use this indicator and show SharpChart examples. A sample list of symbols can be found at the end of this article.

Calculation

StockCharts.com has AD Volume Percent data going back at several years. Note, however, that these calculations are based on the current list of stocks in the underlying security or index (i.e. XLK). This means the breadth data two years ago is based on the current holdings, which do change. Even though the holdings for the nine sector SPDRs and major indexes are relatively stable, chartists should keep this in mind if using a long-term chart.

AD Volume Percent = (Advancing Volume Less Declining Volume) / Total Volume

AD Volume Percent = (36m - 5m) / 41m = +31/41 = +75.60%

AD Volume Percent = (7m - 36m) / 43m = -29/43 = -67.44%

In the first numerical example, total volume is 41 million shares, advancing volume is 36 million shares and declining volume is 5 million shares. AD Volume Percent is positive (+75.60%) because advancing volume is greater than declining volume. In the second example, total volume is 43 million, advancing volume is 7 million and declining volume is 36 million. AD Volume Percent is negative (-67.44%) because declining volume is greater than advancing volume.



As the chart above shows, AD Volume Percent fluctuates between -100% and +100% with zero as the middle line. A +100% reading means all volume went to advancing stocks. In other words, all stocks closed higher on the day. A -100% reading means all volume went to declining stocks. Extreme readings are the exception rather than the norm.

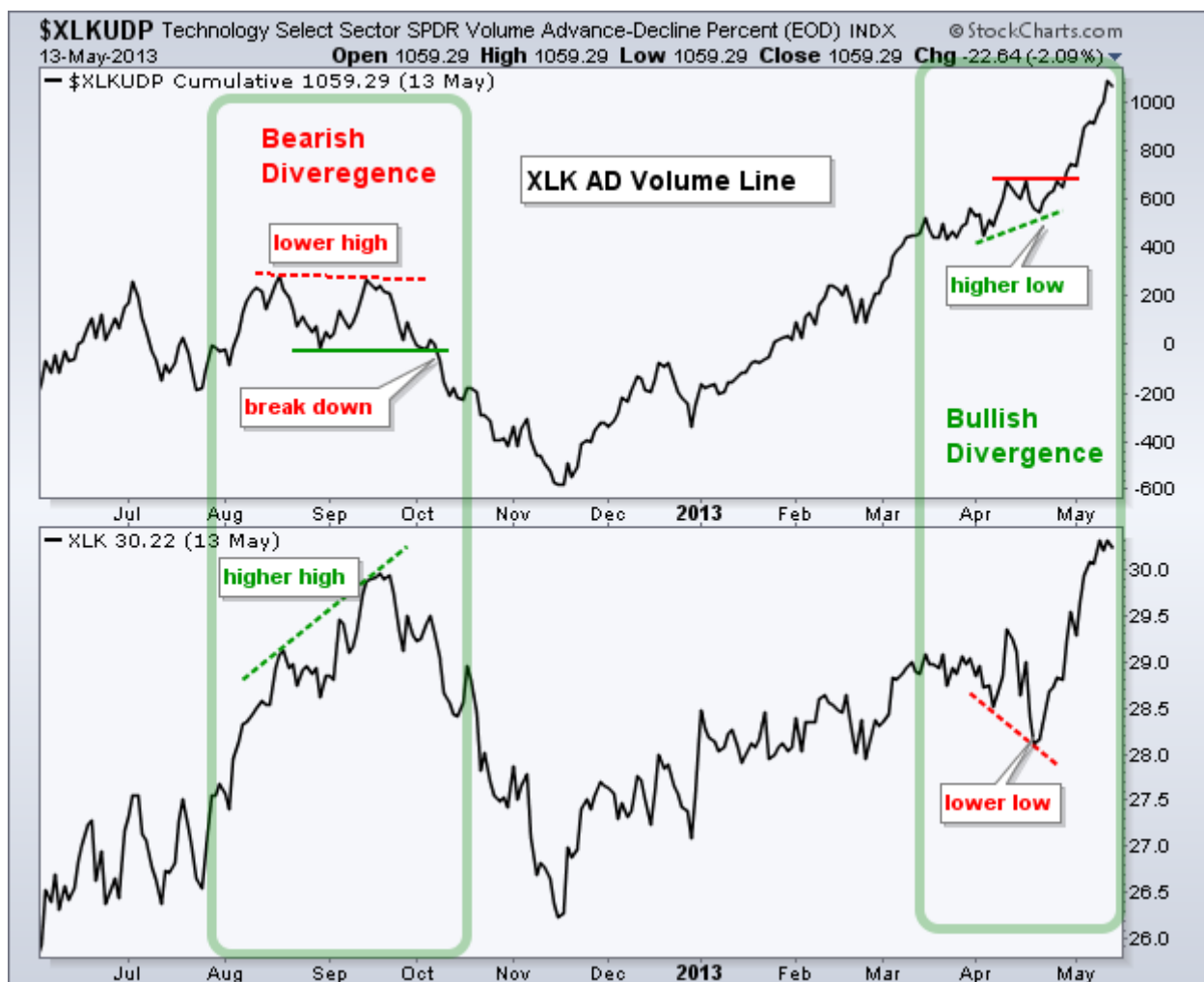
Interpretation

As a breadth indicator, AD Volume Percent measures the money flow behind a particular move. An advance with AD Volume Percent exceeding 70% shows strong buying pressure because most of the volume went into advancing stocks. Conversely, a decline with AD Volume Percent dipping below -70% reflects strong selling pressure.

The raw data fluctuates with the up and down days, and creates a rather choppy looking chart. Nevertheless, chartists can compare the positive and negative days to assess buying and selling pressure. Chartists can apply a moving average to create an oscillator. Chartists can also create an AD Volume Line to assess the overall trend and look for divergences.

AD Volume Line

The chart below shows the AD Volume Line for the Technology SPDR (XLK) in the top window and XLK in the lower window. The AD Volume Line is a cumulative measure of AD Volume Percent for XLK (\$XLKUDP). The line rises when AD Volume Percent is positive and falls when AD Volume Percent is negative. The values on the right-hand scale are not important because these values depend on the starting date. Chartists should simply focus on line movements and apply basic technical analysis.



There are two “technical developments” visible on this chart. First, notice that a bearish divergence formed in August-September. XLK moved to a new high in September, but the AD Volume Line did not confirm this high and formed a lower high. This bearish divergence reflected weaker buying pressure on the September advance.

Second, there was a bullish divergence in April. Notice how XLK dipped below its early April low in late April, but the AD Volume Line formed a higher low. This higher low indicated that downside volume (selling pressure) was not that strong during the April pullback. Weak selling pressure set the stage for a rebound in buying pressure and a break to new highs in XLK.

Moving Averages

A moving average can be applied to AD Volume Percent to create an oscillator that fluctuates above/below the zero line. Technically, this is not a momentum oscillator, but the resulting breadth oscillator fluctuates above/below the zero line and can be used just like a momentum oscillator. Chartists can look for this moving average to cross a particular threshold and look for divergences to produce signals. More aggressive traders can even look for overbought and oversold levels.



The chart below shows the 21-day simple moving average for AD Volume Percent of XLY (\$XLYUDP). The actual \$XLYUDP plot is invisible, which is a setting that can be applied under Chart Attributes/Type. The horizontal lines are set at +5%, 0% and -5%. Notice that crosses above/below the zero line are quite susceptible to whipsaws and bad signals. Traders would be better off using bullish and bearish thresholds just above/below the zero line. In this example, a move above +5% is deemed bullish and a move below -5% is deemed bearish. These signals are highlighted with the red and green lines. Don't go looking for the perfect signal because all oscillator systems will produce their share of whipsaws and bad signals.

Conclusions

AD Volume Percent is a breadth indicator that measures buying and selling pressure within a particular group of stocks. The price of the underlying security (i.e. XLK) reflects what is happening on the outside. AD Volume Percent for XLK (\$XLKUDP) shows what is happening on the inside. Changes sometimes occur on the inside first and breadth indicators can help chartists anticipate these changes. The AD Volume Line is a cumulative indicator that can be used for short-term and long-term analysis. A moving average of AD Volume Percent is more sensitive and acts like a momentum oscillator.

SharpCharts




AD Volume Percent can be added to any SharpChart using the appropriate symbol (see list below). The example below shows SharpChart settings for the histogram, 20-day SMA and AD Volume Line. The raw data should be shown as a “histogram” chart to best capture the ups and downs (red). AD Volume Percent can be turned into a breadth oscillator by choosing “invisible” for chart type to hide the raw data. Next, add a moving average in the “Overlays” section. Choosing invisible in the first step will ensure that the moving average becomes the main security. Chartists can easily create an AD Volume Line by setting the chart type to “cumulative” (black).

Indicators

Parameters

Position


Advanced Options

Price **Histogram**

\$XLYUDP

Below

Date/Time Axis

Below

Price **20-day SMA**

\$XLYUDP

Below

Date/Time Axis

Below

Price **AD Volume Line**

\$XLYUDP

Below

- None -

Below

Update

Clear All

Click green triangle to open/close advanced options

Style **Histogram**

Color

Height

Opacity

Overlay

Parameters

Histogram

- Auto -

1.0

- Auto -

- None -

20-day SMA

Invisible

- Auto -

1.0

- Auto -

Simple Moving Avg

20

AD Volume Line

Cumulative

- Auto -

1.0

- Auto -

- None -

Symbol Samples

StockCharts.com users can find a list of symbols for AD Volume Percent using the symbol catalog. Simply search for “advance and decline and volume and percent” (without the quotation marks). The image below shows a partial list of symbols. [Click here](#) for an up-to-date list.

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Symbols

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advance and decline and percent and volume

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Symbol	Name
 \$DJTUDP	Dow Transports Volume Advance-Dcline Percent (EOD)
 \$DJJUDP	Dow Utilities Volume Advance-Dcline Percent (EOD)
 \$DOWUDP	Dow Volume Advance-Dcline Percent (EOD)
 \$GDXUDP	Gold Miners Volume Advance-Dcline Percent (EOD)
 \$MIDUDP	S&P 400 Volume Advance-Dcline Percent (EOD)
 \$NDXUDP	Nasdaq 100 Volume Advance-Dcline Percent (EOD)
 \$SMLUDP	S&P 600 Volume Advance-Dcline Percent (EOD)
 \$SPXUDP	S&P 500 Volume Advance-Dcline Percent (EOD)
 \$SUPUDP	S&P 1500 Volume Advance-Dcline Percent (EOD)
 \$TSEUDP	S&P/TSX Composite Volume Advance-Dcline Percent (EOD)
 \$XLBUDP	Materials Select Sector SPDR Volume Advance-Dcline Percent (EOD)
 \$XLEUDP	Energy Select Sector SPDR Volume Advance-Dcline Percent (EOD)