



S-Trader





VO | Volume Oscillator

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Description

The Volume Oscillator (VO) is a momentum oscillator for volume. The VO measures the difference between two volume-based moving averages either in absolute terms or as a percentage of the larger moving average. As with the MACD and the Percentage Price Oscillator (PPO), it is shown with a signal line, a histogram and a centerline. The VO is positive when the shorter volume MA is above the longer volume MA and negative when the shorter volume MA is below. This indicator can be used to define the ups and downs for volume, which can then be used to confirm or refute other signals. Typically, a resistance or support break is validated when the VO is rising and positive versus falling and negative.

Formula

- Step 1: Calculate the first volume moving average based on the short-term period and the selected moving average type;
- Step 2: Calculate the second volume moving average based on the long-term period and the selected moving average type;
- Step 3: Determine VO:
 - For Points, calculate $VO = (\text{Short Average} - \text{Long Average})$
 - For Percentage, calculate $VO = (\text{Short Average} - \text{Long Average}) / \text{Long Average}$
- Step 4: Calculate VO Signal as a moving average of VO for selected signal periods and signal moving average type
- Step 5: Calculate VO Histogram = $VO - VO \text{ Signal}$

Parameters

Short-Term Periods	Any number of periods
Long-Term Periods	Any number of periods



MA Type	Any available moving average type
Points or Percent	Either "Points" or "Percentage"
Signal Periods	Any number of periods
Signal MA Type	Any available moving average type

Output value(s)

There is one output value resulting from the formula, the Volume Oscillator, the Volume Oscillator Signal and the Volume Oscillator Histogram.

Plot

The plot is in a separate panel at the bottom.

Quant Script™ Syntax

Short Form	<i>VO</i> (Short-term periods, Long-term periods, MA Type, Points or Percent, Signal Periods, Signal MA Type)
	<i>VOS</i> (Short-term periods, Long-term periods, MA Type, Points or Percent, Signal Periods, Signal MA Type)
	<i>VOH</i> (Short-term periods, Long-term periods, MA Type, Points or Percent, Signal Periods, Signal MA Type)



Long Form	VolumeOscillator (Short-term periods, Long-term periods, MA Type, Points or Percent, Signal Periods, Signal MA Type)
	VolumeOscillatorSignal (Short-term periods, Long-term periods, MA Type, Points or Percent, Signal Periods, Signal MA Type)
	VolumeOscillatorHistogram (Short-term periods, Long-term periods, MA Type, Points or Percent, Signal Periods, Signal MA Type)

Dialogs

Chart Study Dialog

Volume Oscillator
✕

Indicator Parameters

Symbol:

ShortTerm:

LongTerm:

MaType:

PointsOrPercent:

SignalPeriod:

SignalMaType:

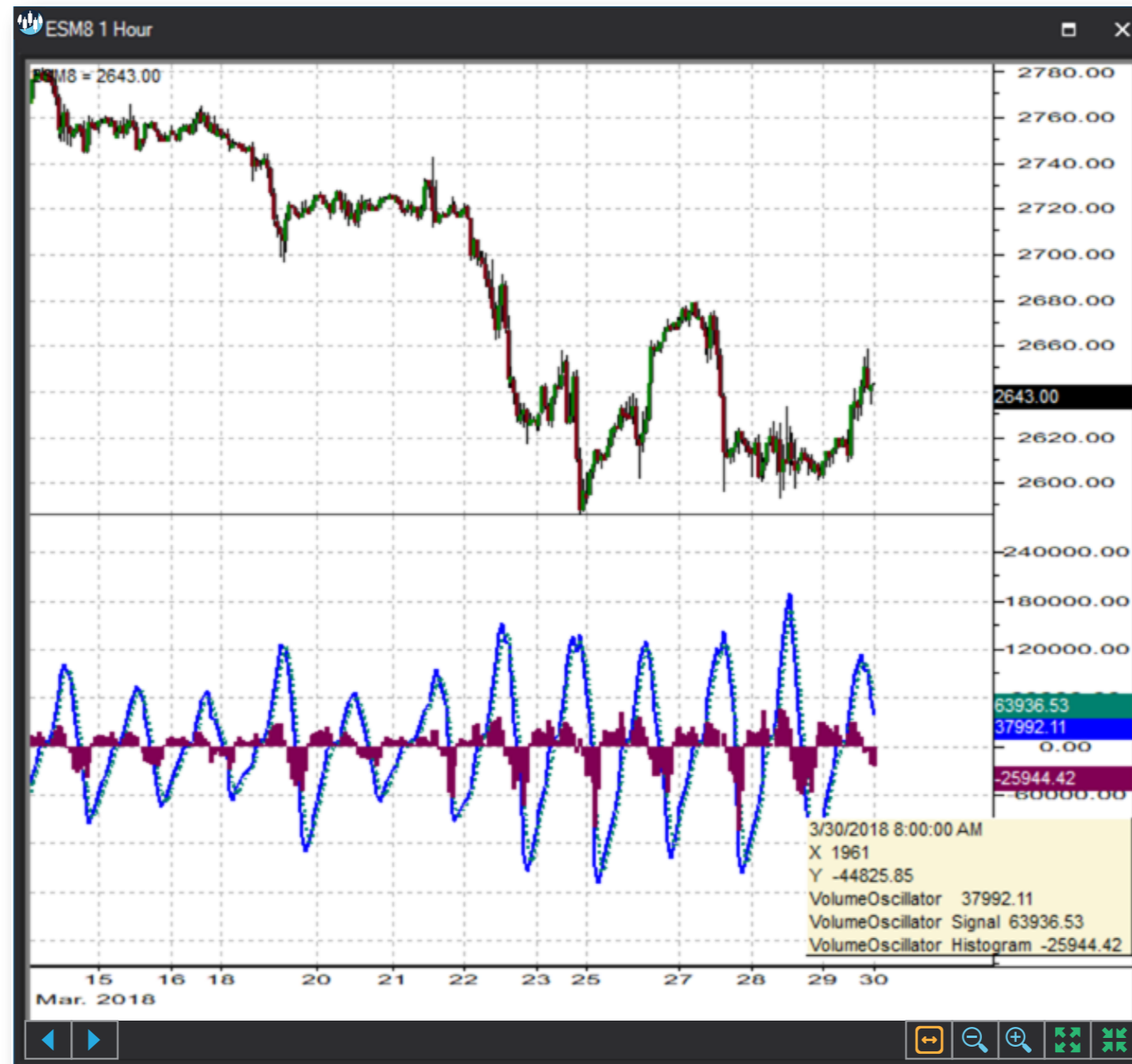
Series Configuration

Volume Oscillator	Line	Solid	2			
Signal	Line	Dot	2			
Histogram	Histogram	Solid	3			

Save as Default Setting



Sample Chart With Study





Quant Script™ Wizard Study Dialog

The image shows two overlapping dialog boxes in the S-Trader desktop platform. The 'Custom Study Wizard' dialog is on the left, and the 'Add Variable' dialog is on the right.

Custom Study Wizard

- Save To Group: Default
- Custom Study Name: [Empty text box]
- Password: [Empty text box]
- Result: Line, Solid, 2, [Color swatches]
- Reverse_Result: Line, Solid, 2, [Color swatches]
- Add To New Panel:
- Buttons: Add New Variable, Edit Selected Variable
- Table with columns: Name, Description
- Buttons: OK, Cancel

Add Variable

- Name: [Empty text box]
- Description: [Empty text box]
- Variable List (selected: VolumeOscillator):
 - PVT
 - TMF
 - TradeVolumeIndex
 - TVI
 - TwiggsMoneyFlow
 - VO
 - VOH
 - VolumeOscillator
 - VolumeOscillatorHistogram
 - VolumeOscillatorSignal
 - VolumeRateOfChange
 - VOS
 - VROC
 - WAD
 - WilliamsAccumulationDistribution
 - WilliamsVariableAccDist
 - WWAD
- Parameters:
 - ShortTerm: 5
 - LongTerm: 13
 - MaType: Simple
 - PointsOrPercent: POINTS
 - SignalPeriod: 3
 - SignalMaType: Simple
- Buttons: Create Script Line, OK, Cancel



Quant Script™ Study Dialog

Custom Study Editor

Save To Group: 4_OSCILLATORS_MONEY_FLC A 14.00

Custom Study Name: VOH

Password:

Result: Line | Solid | 2 | █ █

Reverse_Result: Line | Solid | 2 | █ █

Formula Add To New Panel

```
SET A1 = VO(5, 13, EXPONENTIAL, POINTS, 3, SIMPLE)
SET A2 = VolumeOscillator(5, 13, EXPONENTIAL, POINTS, 3, SIMPLE)

SET B1 = VOS(5, 13, EXPONENTIAL, POINTS, 3, SIMPLE)
SET B2 = VolumeOscillatorSignal(5, 13, EXPONENTIAL, POINTS, 3, SIMPLE)

SET C1 = VOH(5, 13, EXPONENTIAL, POINTS, 3, SIMPLE)
SET C2 = VolumeOscillatorHistogram(5, 13, EXPONENTIAL, POINTS, 3, SIMPLE)
```

OK Cancel