



S-Trader





ARO | Aroon Oscillator

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Description

Developed by Tushar Chande in 1995, Aroon is a study that determines whether an instrument is trending or not and how strong the trend is. "Aroon" means "Dawn's Early Light" in Sanskrit. Chande chose this name because the studies are designed to reveal the beginning of a new trend. The Aroon studies measure the number of periods since price recorded an n-period high or low. There are three separate indicators: Aroon-Up, Aroon-Down and Aroon Oscillator which is the spread between the first two. An n-periods Aroon-Up measures the number of periods since an n-period high. An n-period Aroon-Down measures the number of periods since an n-period low. In this sense, the Aroon indicators are quite different from typical momentum oscillators, which focus on price relative to time. Aroon is unique because it focuses on time relative to price. Chartists can use the Aroon indicators to spot emerging trends, identify consolidations, define correction periods and anticipate reversals.

Formula

Step 1: Aroon Up = $100 * (n - \text{Days Since } n\text{-day High})/n$

Step 2: Aroon Down = $100 * (n - \text{Days Since } n\text{-day Low})/n$

Step 3: Aroon Oscillator = Aroon Up – Aroon Down.

Parameters

Periods

Any number of periods

Output value(s)

There are three output values resulting from the formula, the Aroon Up, Aroon Down and Aroon Oscillator.



Plot

The plot is in a separate panel at the bottom.

Quant Script™ Syntax

Short Form	<i>AROU</i> (Periods)
	<i>AROD</i> (Periods)
	<i>AROOSC</i> (Periods)
Long Form	<i>AroonUp</i> (Periods)
	<i>AroonDown</i> (Periods)
	<i>AroonOscillator</i> (Periods)



Dialogs

Chart Study Dialog

Aroon Indicator Parameters ✕

Symbol

Period

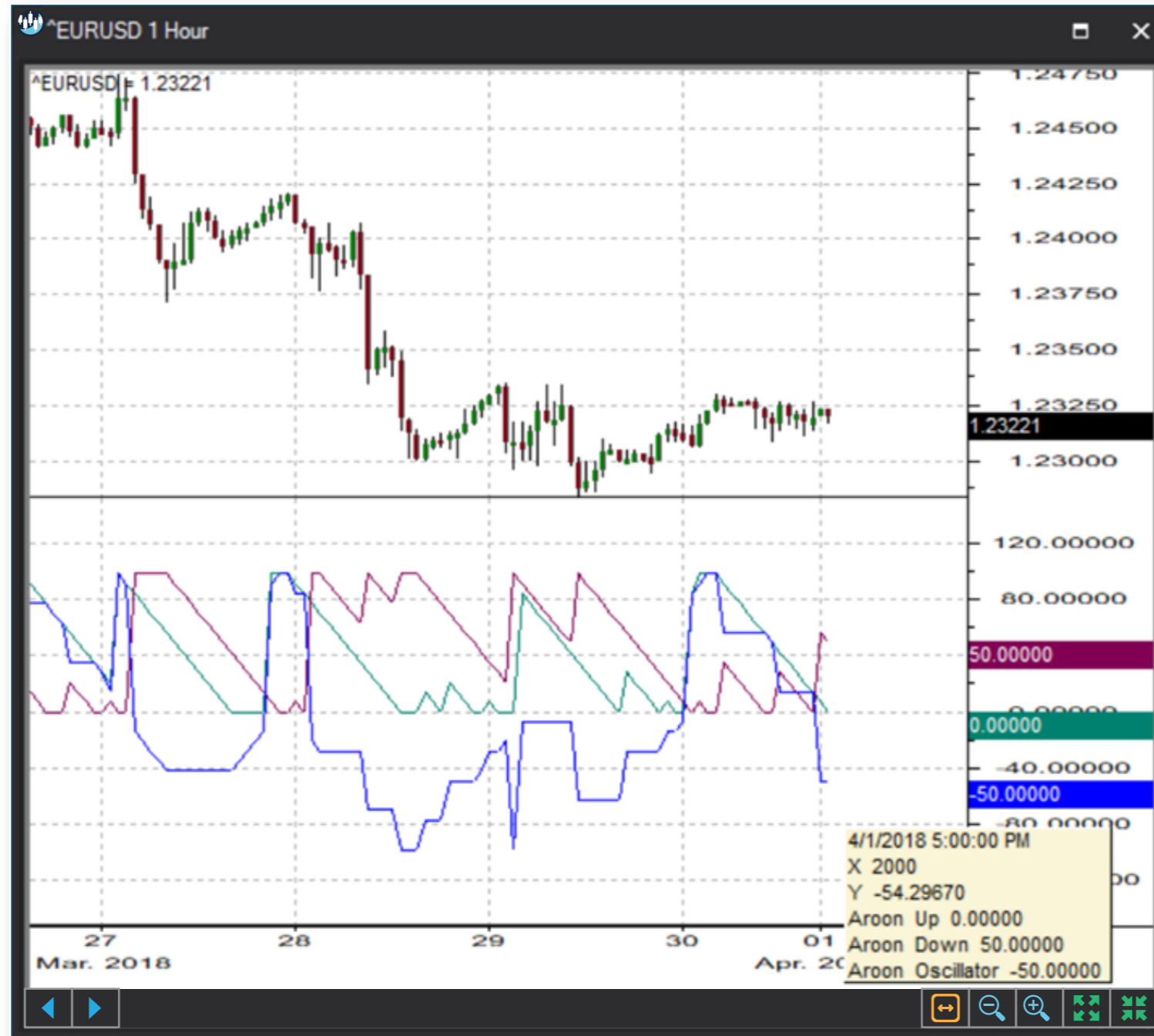
Series Configuration

Up	<input type="text" value="Line"/>	<input type="text" value="Solid"/>	<input type="text" value="2"/>	<input type="text" value=""/>
Down	<input type="text" value="Line"/>	<input type="text" value="Solid"/>	<input type="text" value="2"/>	<input type="text" value=""/>
Oscillator	<input type="text" value="Line"/>	<input type="text" value="Solid"/>	<input type="text" value="1"/>	<input type="text" value=""/>

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 left dialog is titled "Custom Study Wizard" and the right is "Add Variable".

Custom Study Wizard Dialog:

- 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]
- Buttons: Add To New Panel (checked), Add New Variable, Edit Selected Variable
- Table with columns: Name, Description
- Buttons: OK, Cancel

Add Variable Dialog:

- Name: [Empty text box]
- Description: [Empty text box]
- Period: 14
- Tree view showing "Trend Indicators" expanded with "AroonUp" selected.
- Buttons: Create Script Line
- Text area containing: AroonUp(14)
- Buttons: OK, Cancel



Quant Script™ Study Dialog

Custom Study Editor

Save To Group: 5_TREND INDICATORS

Custom Study Name: AROU

Password: [Empty]

Result: Line, Solid, 2

Reverse_Result: Line, Solid, 2

Formula:

```
SET RESULT = AROU(14)  
SET REVERSE_RESULT = AroonUp(14)
```

Add To New Panel

OK Cancel