



S-Trader





PGO | Pretty Good Oscillator

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Description

The Pretty Good Oscillator (PGO) by Mark Johnson measures the distance of the current close from its n period moving average, expressed in terms of an average true range over a similar or different period.

Formula

Step 1: Calculate the moving average for the required n periods and moving average type using existing formulas;
Step 2: Calculate the ATR based on m ATR periods and ATR moving average type using existing formulas;
Step 3: Calculate $PGO = (Latest\ Value - Moving\ Average) / ATR$

Parameters

Source	Any price source (O, H, L, C, Vol, OI) or any other built-in or custom study
MA Periods	Any number of periods
MA Type	Any available moving average type
ATR Periods	Any number of periods
ATR MA Type	Any available moving average type



Output value(s)

There is one output value resulting from the formula, the Pretty Good Oscillator.

Plot

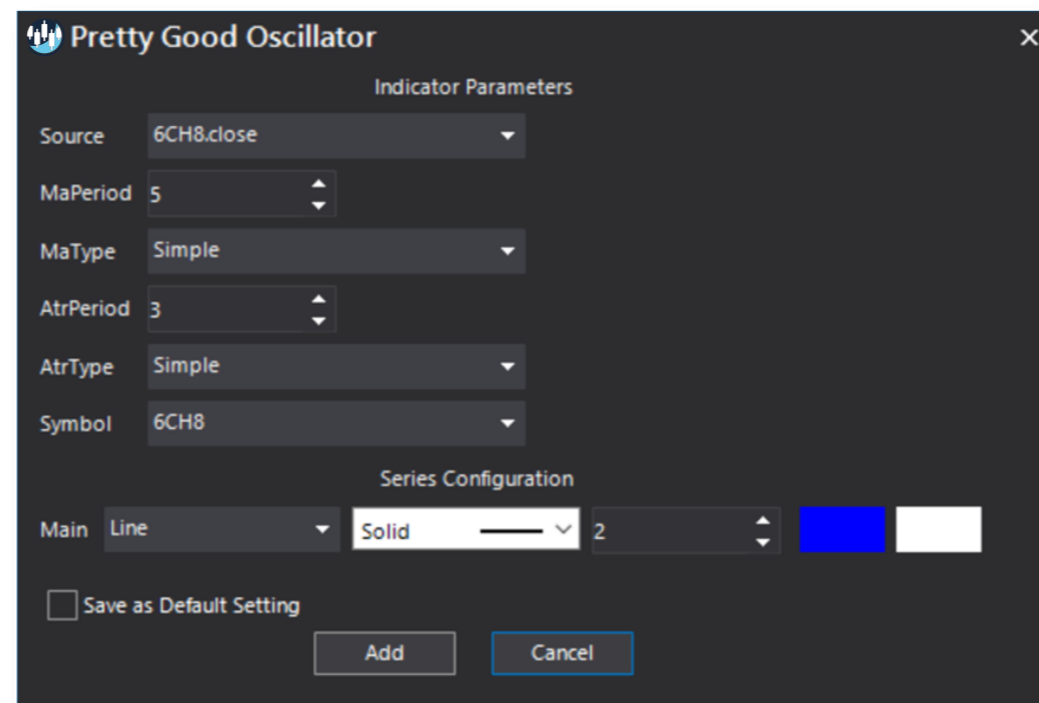
The plot is in a separate panel at the bottom.

Quant Script™ Syntax

Short Form	<i>PGO</i> (Source, MA Periods, MA Type, ATR Periods, ATR MA Type)
Long Form	<i>PrettyGoodOscillator</i> (Source, MA Periods, MA Type, ATR Periods, ATR MA Type)

Dialogs

Chart Study Dialog





Sample Chart With Study





Quant Script™ Wizard Study Dialog

The image shows two overlapping dialog boxes from the S-Trader platform. The top dialog is titled "Custom Study Wizard" and contains the following fields and controls:

- Save To Group: Default (dropdown)
- Custom Study Name: [Text Input]
- Password: [Text Input]
- Result: Line (dropdown), Solid (dropdown), 2 (spin box), [Color Picker]
- Reverse_Result: Line (dropdown), Solid (dropdown), 2 (spin box), [Color Picker]
- Buttons: Add To New Panel (checked), Add New Variable, Edit Selected Variable
- Table with columns: Name, Description

The bottom dialog is titled "Add Variable" and contains the following fields and controls:

- Name: [Text Input]
- Description: [Text Input]
- Source: CLOSE (dropdown)
- MaPeriod: 5 (spin box)
- MaType: Simple (dropdown)
- AtrPeriod: 3 (spin box)
- AtrType: Simple (dropdown)
- Buttons: Create Script Line, OK, Cancel
- Preview text: PrettyGoodOscillator(CLOSE, 5, Simple, 3, Simple)



Quant Script™ Study Dialog

Custom Study Editor [Close]

Save To Group: 3_OSCILLATORS_PRICE [Dropdown] A 14.00 [Dropdown]

Custom Study Name: PGO [Text]

Password: [Text]

Result: Line [Dropdown] Solid [Dropdown] 2 [Dropdown] [Color Picker]

Reverse_Result: Line [Dropdown] Solid [Dropdown] 2 [Dropdown] [Color Picker]

Formula Add To New Panel

```
SET RESULT = PGO(CLOSE, 5, SIMPLE, 3, SIMPLE)
SET REVERSE_RESULT = PrettyGoodOscillator(CLOSE, 5, SIMPLE, 3, SIMPLE)
```

[OK] [Cancel]