

Upside Potential Ratio (UPR)

Code:

```
//@version=5
indicator("Upside Potential Ratio (UPR)", overlay=false)

// Input variables
length = input.int(50, title="Length")

// Calculate returns
returns = close / close[1] - 1

// Calculate downside deviation
downside_returns = math.min(returns, 0)
downside_deviation = math.pow(ta.sma(downside_returns * downside_returns,
length), 0.5)

// Calculate upside potential ratio
expected_return = ta.sma(returns, length)
upside_potential_ratio = expected_return / downside_deviation

// Plot UPR
plot(upside_potential_ratio, color=color.blue, title="UPR")

// Plot overbought/oversold levels (optional)
hline(1, "Overbought", color=color.red)
hline(0, "Oversold", color=color.green)

//Plot numerical value label only for the latest value
var label_value = label.new(na, na, "")
if last_bar_index
    label.set_xy(label_value, x = bar_index + 100, y = upside_potential_ratio)
    label.set_text(label_value, text = str.tostring(upside_potential_ratio,
"#.###"))
    label.set_style(label_value, label.style_label_right)
    label.set_color(label_value, color.blue)
    label.set_textcolor(label_value, color.white)
    label.set_size(label_value, size.small)
else
    label.delete(label_value)
```