

Mantis Shrimp Convergence (MSC) for MT4 – User Guide and In-Depth Explanation

About This Guide

This guide provides detailed instructions for configuring, interpreting, and effectively using the **Mantis Shrimp Convergence (MSC)** indicator on the **MetaTrader 4 (MT4)** platform. We explain the rationale behind its design — such as why it uses *"Every tick based on real ticks"* (commonly used by institutions) instead of OHLC-based logic like MACD — how to interpret its signals, and how to integrate it into a disciplined trading approach.

1. Philosophy and Purpose of MSC

MSC is built to address two key problems faced by most traders:

- **Lag:** Many indicators (e.g., MACD) introduce delay, making traders react too late.
- **False divergence:** Classic interpretations of price vs. indicator divergence can be misleading.

MSC solves these by:

- Eliminating visible lag.
- Replacing divergence with structural **momentum convergence**.

Instead of divergence, MSC measures actual **convergence** between price momentum and a chosen time-cycle context (e.g., daily, weekly). This aligns signals with market rhythm, adaptable to any trading style.

2. Anatomy of MSC: What You See in the Indicator Window

MSC appears in a separate subwindow below the price chart. It includes three main elements:

2.1 Signal Lines

- **Fast Line:** Reacts quickly to recent momentum.

- **Slow Line:** Smoothed and less reactive.

When the Fast Line crosses the Slow Line, it signals a shift in the balance between short-term impulse and broader trend structure.

2.2 Four-Color Histogram

The histogram visualizes **momentum convergence**, with each color representing:

- **Direction:** Up or down
- **Acceleration:** Increasing or decreasing

Color	Momentum Meaning
Strong Up	Positive and accelerating
Weak Up	Positive but decelerating
Strong Down	Negative and accelerating
Weak Down	Negative but decelerating

2.3 Zero Line

The **0 line** serves as a polarity threshold:

- Histogram **above 0** = net positive momentum
- Histogram **below 0** = net negative momentum

Tip: Zero line crossovers are often timely and effective for entry triggers.

3. What Does “Convergence” Mean in MSC?

MSC evaluates the **alignment** between price momentum and a **dynamic cycle-based baseline**.

It answers:

"Is the market moving with the dynamics expected for the current cycle, or is momentum possibly reversing?"

This helps identify:

- **Trend beginnings:** Positive convergence above 0 + bullish crossover.
 - **Trend fatigue:** Histogram shifts to Weak Up or Weak Down.
 - **Early reversals:** Fast crosses Slow before visible price swing.
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4. MSC Parameters — Explained for Traders

4.1 Core Parameters

- **View Mode:** Switch between two display layouts:
 - Chart View – MSC indicator is drawn in the histogram style for the current timeframe.
 - 6-Timeframe Panel (M1–M5–M15–M30–H1–H4) – Displays a compact, multi-timeframe convergence panel. The 7th timeframe is RenkoMean, which is not time-dependent.

Tip: Use Chart View for detailed, candle-by-candle decisions; switch to Panel Mode for quick multi-timeframe alignment checks during active trading. For maximum efficiency, attach two MSC indicators to the same chart — one set to Chart View and the other to Panel Mode — so both perspectives are always visible without switching modes.

- **Cycle TimeFrame:** Defines the cyclical window for MSC resets
Examples: 1D, 1W, 1M, 3M, 6M, 1Y

Trading Style	Recommended Cycle
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Scalping / Daytrade	1D or 1W
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Swing	1W or 1M
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Position / Macro	1M–3M+
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- **Signal MA Method:** Exponential (reactive, chosen for speed)
- **Fast / Slow Periods:** Sensitivity of signal lines

Tip: Use Fibonacci numbers for Fast/Slow periods.

- **RenkoMean Candle Size:** Size of each synthetic brick (in points)

Tip: Use RenkoMean for entry and exit confirmation.

4.2 Visual / Ergonomic Parameters

- Controls colors, widths, and visual style.
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4.3 Testing / Data Parameters

- **Save To File (true/false)**
`true` = Exports 1440 candles of history to be used on live charts
`false` = No export

Tip: Choose an end date in the future, and a start date that matches the selected Cycle TimeFrame.

How to Test MSC with MACD in MT4 Strategy Tester

Step	Action
1	Open a clean chart (e.g., EURUSD, H1), add MACD, adjust styling
2	Save it as a template: Right-click → Templates → Save Template → name it <code>tester.tpl</code>
3	Open Strategy Tester, select MSC as the indicator, and click Start

Result: The chart will load with both MSC and MACD shown as configured.

Limitations

- **Historical Data Limit:** MSC does not show past candles when using “Every tick based on real ticks.”
 - Use `Save To File = true` for 1440 bars of history.
 - Use `Save To File = false` for extended testing (live data only).

- **Strategy Tester Restriction:** MT4 cannot generate historical bars in real-tick mode. MSC shows only forward-generated candles during the test.

These are platform limitations and do **not** affect real-time MSC performance.

5. Signal Interpretation: Decision Flow

5.1 Before Entry – Read the Setup

- **Histogram position:**
Above 0 → Bullish bias
Below 0 → Bearish bias
- **Histogram color:**
Strong → Active impulse
Weak → Exhaustion or correction
- **Fast vs. Slow:**
Fast > Slow → Bullish structure
Fast < Slow → Bearish structure

5.2 Entry Signals

Situation	Conditions	Entry Type
Bullish crossover	Fast crosses above Slow + histogram weak	Aggressive long
Impulse confirmation	Histogram above 0 becomes Strong Up	Conservative long
Bearish crossover	Fast crosses below Slow + histogram weak	Aggressive short
Impulse confirmation	Histogram below 0 becomes Strong Down	Conservative short

Tip: Enter within **2–3 bars** after the Fast/Slow crossover, confirmed by RenkoMean and histogram.

6. Recommended Colors & Widths

- **Up Signal Color:** Aqua
- **Down Signal Color:** Red
- **Histogram Strong Up:** Lime
- **Histogram Weak Up:** Dodger Blue

- **Histogram Strong Down:** Red
 - **Histogram Weak Down:** Violet
 - **Tick Writer Color:** Lime
 - **Convergence Width:** 2
 - **Signal Width:** 1
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7. Troubleshooting MSC

7.1 Problem: MSC does not show historical data for XAUUSD

Solution:

1. **Download M1 history:**
MT4 → Tools → History Center → XAUUSD → M1 → Download → Close
2. **Run Strategy Tester:**
 - Symbol: XAUUSD
 - Period: M1
 - Model: Every tick
 - Use date: From 2025.09.01 to 2025.10.01, Skip to 2025.10.01 (from the 1st day of the current month until the 1st day of the next month.)
 - Set Save To File = true
 - Click **Start**, then **Skip**

► This will create the file:

C:\Users\User\AppData\Roaming\MetaQuotes\Terminal\Common\Files\BrokerName-Demo03_XAUUSD.tck

3. **Check Global Variables:**
MT4 → Tools → Global Variables → BrokerName-Demo03_XAUUSD_TickWriter (at least one chart open with MSC)
4. **MSC should now show live & historical data** on all XAUUSD charts when the new M1 candle forms.

Tip: Same steps work for any other symbol or instrument.

7.2 Problem: After updating, the previous version of the indicator is no longer available.

Solution:

If you want to keep multiple versions, simply copy the indicator file from the Market folder and rename it with the version number.

Example: Mantis Shrimp Convergence [version number].ex4

7.3 Problem: How to purchase a trading robot from the MetaTrader Market and install it?

Solution:

Step-by-step written guide on buying a trading robot from the official MetaTrader Market, downloading it, and completing installation inside MT4 or MT5.

🔗 <https://www.mql5.com/en/articles/498>

7.4 Problem: How to purchase a robot or an indicator in the Market of MetaTrader Platforms?

Solution:

Short video tutorial showing the process directly inside the MetaTrader terminal, from searching the product to final installation.

📺 <https://www.youtube.com/watch?v=M1lD90g9Rjg>

7.5 Problem: Tips for Purchasing a Product on the Market – Step-By-Step Guide

Solution:

Comprehensive article with practical tips, payment method options, and verification steps before purchasing from the Market.

🔗 <https://www.mql5.com/en/articles/1776>
